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(71) Applicants (for all designated States except US): SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH [US/US]; 1275 York Avenue, New York, NY 10021 (US). THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK [US/US]; West 116th Street and Broadway, New York, NY 10027 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PAVLETICH, Nikola [YU/US]; Apartment 38A, 330 East 75th Street, New York, NY 10021 (US). FINNIN, Michael [US/US]; 504 East 63rd Street, Apt. 19S, New York, NY 10021 (US). DONIGIAN, Jill [US/US]; 13 Union Place, North Arlington, NJ 07031 (US). RICHON, Victoria [US/US]; 504 East 63rd Street, Apt. 28M, New York, NY 10021 (US). RIFKIND, Richard, A. [US/US]; Apt. #48A, 425 East 58th Street, New York, NY 10022 (US). MARKS, Paul, A. [US/US]; 7 Rossiter Road, Washington, CT 06793 (US). BRESLOW, Ronald [US/US]; 275 Broad Avenue, Englewood, NJ 07631 (US).

- (74) Agent: WHITE, John, P.; Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY 10036 (US).
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(54) Title: CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

(57) Abstract: The present invention provides three-dimensional structural information from the hyperthermophilic bacterium Aquifex aeolicus which is a histone deacetylase-like protein (HDLP). HDLP shares 35.2% amino acid sequence identity with human histone deacetylase (HDAC1). The present invention further provides three-dimensional structural information of HDLP bound by inhibitor molecules. The three-dimensional structural information of the present invention is useful to design, isolate and screen deacetylase inhibitor compounds capable of inhibiting HDLP, HDAC family members and HDLP-related molecules. The invention also relates to nucleic acids encoding a mutant HDLP which facilitates the determination of the three-dimensional structure of HDLP in the presence of a zinc atom.

CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

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This application claims priority of U.S. Provisional Application No. 60/152,753, filed September 8, 1999, the contents of which are hereby incorporated by reference.

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This invention has been made with government support under National Institutes of Health Grant No. RO1 CA-65698. Accordingly, the U.S. Government may have certain rights in the invention.

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Throughout this application, various publications are referenced by author, date and citation. The disclosures of these publications in their entireties are hereby incorporated by reference into this application in order to more fully describe the state of the art as known to those skilled therein as of the date of the invention described and claimed herein.

Introduction

The present invention relates to a histone deacetylase homologue from the hyperthermophilic bacterium Aquifex aeolicus, HDLP (histone deacetylase like protein; also known as AcuCl), which shares 35.2 % sequence identity with human histone deacetylase (HDACl), that can be co-crystallized with an inhibitory ligand, and more particularly, to the detailed crystallographic data obtained from said co-crystallization which is disclosed herein. The invention also relates to methods of using the crystal structure and x-ray crystallographic coordinates of the apo-HDLP and

- 2 -

inhibitor-bound HDLP to design, isolate and screen compounds which bind to and inhibit the active site of HDLP and HDLP-related proteins, such as those proteins belonging to the HDAC family, including HDAC1.

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Background of the Invention

The reversible modification of histones by acetylation is associated with changes in nucleosome conformation and chromatin structure, and plays an important role in the regulation of gene expression (reviewed in Davie and Chadee, 1998, J. Cell Biochem. Suppl. 30-31:203-213). The histone acetylase and deacetylase enzymes that carry out these modifications are involved in many cellular processes such as cell cycle progression and differentiation, and their deregulation is associated with several types of human cancer (reviewed in Kouzarides, 1999, Curr. Opin. Genet. Dev. 2:40-48; Hassig et al., 1997, Chem. Biol. 4:783-789; Fenrick and Heibert, 1998, J. Cell. Biochem. Suppl. 30-31:194-202).

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Recently, several experimental antitumor compounds, such as trichostatin A (TSA), trapoxin, suberoylanilide hydroxamic acid (SAHA), and phenylbutyrate have been shown to act, at least in part, by inhibiting histone deacetylases. Richon et al., 1998, Proc. Natl. Acad. Sci., USA 95:3003-3007; Yoshida et al., 1990, J. Biol. Chem. 265:17174-17179; Kijima et al., 1993, J. Biol. Chem. 268:22429-22435. Additionally, diallyl sulfide and related molecules (Lea et al., 1999, Int. J. Oncol. 2:347-352), oxamflatin (Kim et al., 1999, Oncogene 15:2461-2470), MS-27-275, a synthetic benzamide derivative (Saito et al., 1999, Proc. Natl. Acad. Sci. 96:4592-4597),

- 3 -

butarate derivatives (Lea and Tulsyan, 1995, Anticancer Res. 15:879-883), FR901228 (Nokajima et al., 1998, Exp. Cell Res. 241:126-133), depudecin (Kwon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3356-3361) and m-carboxysinnamic acid bishydroxamide (CBHA; Richon et al., Proc. Natl. Acad. Sci. USA 95:3003-3007) have been shown to inhibit histone deacetylases. In vitro, these compounds can inhibit the growth of fibroblast cells by causing cell cycle arrest in the G1 and G2 phases (Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; Kim et al., 1999, 18:2461-2470; Yoshida et al., 1995, Bioessays 17:423-430; Yoshida & Beppu, 1988, Exp. Cell. Res. 177:122-131), and can to terminal differentiation and loss of the lead transforming potential of a variety of transformed cell lines. Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; Kim et al., 1999, Oncogene 18:2461-2470; Yoshida et al., 1987, Cancer Res. 47:3688-3691. In vivo, phenylbutyrate is effective in the treatment of acute promyelocytic leukemia in conjunction with retinoic acid. Warrell et al., 1998, J. Natl. Cancer Inst. 90:1621-1625. SAHA is effective in preventing the formation of mammary tumors in rats, and lung tumors in mice. Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., Cancer Res., submitted.

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Histone deacetylases catalyze the removal of acetyl groups from the ε -amino groups of lysine residues clustered near the N-terminus of nucleosomal histones, and this process is associated with transcriptional repression (reviewed in Struhl, 1998, Genes Dev. 12:599-606). Deletion of the yeast histone deacetylase gene, rpd3, or its pharmacological

- 4 -

inactivation with trichostatin A reduces the transcriptional repression in a subset of promoters, such as those of Ume6-regulated genes. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127. This is accompanied by the increased acetylation of H4 histones in the repressed promoter and its vicinity, but has no effect on histones at promoter distal regions. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127; Rundlett et al., 1998, Nature 392:831-835.

Histone deacetylases are recruited to specific promoters by associating with DNA-binding transcriptional repressors, either directly or through co-repressors that bridge the deacetylase to the transcriptional repressors. For example, the Mad and Ume6 repressors bind to the co-repressor Sin3A (Laherty et al., 1997, Cell 89:349-356; Hassig et al., 1997, Cell 89:341-347; Kadosh & Struhl, 1997, Cell 89:365-371), and the nuclear receptors bind N-CoR and the related SMRT co-repressors. Nagy et al., 1997, Cell 89:373-380; Alland et al, 1997, Nature 387:43-48.

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The deregulation of histone deacetylase recruitment appears to be one of the mechanisms through which these enzymes contribute to tumorigenesis. In acute promyelocytic leukemia (APL), chromosomal translocations fuse the retinoic acid receptor-α (RARα) to either PLZF or to PML. These fusion oncoproteins have aberrant transcriptional repression activity resulting, in part, through the recruitment of a co-repressor and, in turn, HDACs. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814. Treatment of PLZF-RARα APL cells with TSA enhances their

- 5 -

responsiveness to retinoic acid-induced differentiation. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814.

histone deacetylases comprise a large family of 5 proteins, conserved from yeast to man, and are divided into two related classes. Class I is characterized by human HDAC1, 2, 3 (Taunton et al., 1996, Science 272:408-411; Yang et al., 1996, Proc. Natl. Acad. Sci. USA <u>93</u>:12845-12850; Emiliani et al., 1998, Proc. Natl. Acad. Sci. USA 95:2795-10 2800), and yeast RPD3 (Videl & Gaber, 1991, Mol. Cell. Biol. 11:6317-6327), and class II by the human HDAC4, 5, 6 (Grozinger et al., 1999, Proc. Natl. Acad. Sci. USA 96:4868-4873; Fischle, et al., 1999, J. Biol. Chem. <u>274</u>:11713-11720), and yeast HDA1 (Rundlett et al., 1996, Proc. Natl. 15 Acad. Sci. USA 93:14503-14508). The two classes share a ~390 amino acid region of sequence similarity, comprising the deacetylase core, but are divergent outside this region. The histone deacetylase genes belong to an even larger superfamily (Leipe & Landsman, 1997, Nucleic Acids Res. 20 <u>25</u>:3693-3697) that contains the prokaryotic acetoin utilization proteins (AcuC; 28.1% sequence identity to HDAC1), and the prokaryotic acetylpolyamine amidohydrolases (APAH; 15.0 % sequence identity to HDAC1). The enzymatic activity of AcuC is not clear, but its disruption reduces 25 the ability of B. subtilis to breakdown acetoin and utilize it as a carbon source. Grundy et al., 1993, Mol. Microbiol. 10:259-271. APAHs catalyze the deacetylation of polyamines by cleaving a non-peptide amide bond (reviewed in Leipe & Landsman, 1997, *Nucleic Acids Res*. <u>25</u>:3693-3697). 30

- 6 -

It is useful to address the questions of how HDACs and HDACrelated proteins catalyze the deacetylation of histones and how the above-referenced compounds, particularly those compounds with antitumor activity, inhibit this activity in order to better understand the mechanism of inhibition of HDACs and to facilitate discovery of additional useful compounds which may inhibit this activity. To this end, the present invention has determined the three dimensional structure of a HDAC1-like protein from the thermophilic bacterium Aquifex aeolicus, herein after HDLP. determination of the nucleic acid coding sequence of HDLP was described by Deckert et al., 1998, Nature 392:353-358. encoded 375 residue protein, whose sequence was determined from the nucleic acid encoding sequence, shares 35.2% amino acid sequence identity with HDAC1, deacetylates histones in vitro, and is inhibited by TSA, SAHA and several other HDAC inhibitors. The determination of the threedimensional structure of HDLP is useful in the design, identification and screening of new HDAC family inhibitory compounds which are useful for the inhibition of cell growth both in vivo and in vitro.

Summary of the Invention

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In general, it is the object of the present invention to provide detailed three-dimensional structural information for a family of proteins known as histone deacetylases (HDAC), and particularly a homologue from the hyperthermophilic bacterium Aquifex aeolicus HDLP (histone deacetylase-like protein) which shares 35.2 % sequence identity with human histone deacetylase (HDAC1). It is also an object of the present invention to provide three-

- 7 -

dimensional structural information of an HDLP bound to an inhibitory compound.

In one embodiment of the invention, three-dimensional structure information is obtained from a crystal of wildtype HDLP (SEQ ID NO:1) (the nucleic acid encoding wild-type HDLP is SEQ ID NO:2). In a further embodiment of the invention, three-dimensional information is obtained from a mutant HDLP comprising two mutations (1) cysteine 75 to a serine and (2) cysteine 77 to a serine (Cys75Ser/Cys77Ser double mutant; SEQ ID NO:3) (the nucleic acid encoding HDLP Cys75Ser/Cys77Ser double mutant is SEQ ID NO:4). The HDLP mutant of the present invention facilitates the determination of three-dimensional structural information of HDLP bound to a zinc atom at its zinc atom-binding site.

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In a preferred embodiment of the invention, the threedimensional structural information is obtained from a cocrystal of a protein-inhibitor compound complex that comprises HDLP or HDLP Cys75Ser/Cys77Ser double mutant and trichostatin A (TSA). In another preferred embodiment of the invention the three-dimensional structural information is obtained from a co-crystal of a protein-inhibitor compound complex that comprises HDLP or HDLP Cys75Ser/Cys77Ser double mutant and suberoylanilide hydroxamic acid (SAHA). Any HDLP or HDLP-related protein (e.g. HDAC) inhibitor compound that may be co-crystallized with HDLP may be used to form a co-crystal of the present invention.

The protein crystals and protein-inhibitory complex cocrystals of the present invention diffract to a high

- 8 -

resolution limit of at least equal to or greater than 4 angstrom (Å). In a preferred embodiment, the protein crystals and protein-inhibitory complex co-crystals of the present invention diffract to a high resolution limit of greater than 2.5 Å.

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A crystal of the present invention may take a variety of forms, all of which are contemplated by the present invention. In a preferred embodiment, the crystal has a space group of C2 with one molecule in the asymmetric unit and with unit dimensions of a = 51.4 Å, b = 93.8 Å, 78.7 Å and $\beta = 96.9^{\circ}$ (see, e.g., Example 2, below). another preferred embodiment, the crystal has a space group of P2,2,2, with two molecules in the asymmetric unit and with unit dimensions of a=53.4 Å, b=94.4 Å, c=156.3 Å (see, e.g., Example 2, below). The HDLP structure comprises a parallel β sheet with α helices packing against both faces. At one end of the β sheet, the HDLP has a narrow, tube-like pocket formed by several well-ordered loops. The walls of the pocket are lined with hydrophobic residues and there is a zinc binding site and several polar side chains at the bottom of the pocket. The inhibitory compounds of the present invention bind in the pocket.

The three-dimensional structural information obtained from crystals of HDLP, HDLP Cys75Ser/Cys77Ser double mutant, HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc atom, HDLP comprising an inhibitory compound such as TSA or SAHA, and HDLP Cys75Ser/Cys77Ser double mutant comprising an inhibitor compound such as TSA or SAHA may be employed to solve the structure of any HDLP-related protein (e.g. HDAC) crystal,

- 9 -

or any mutant HDLP-related protein and particularly any wild type or mutant of HDLP-related protein complexed with a ligand, including a substrate or inhibitor compound. If the crystals are in a different space group than the known structure, molecular replacement may be employed to solve the structure, or if the crystals are in the same space group, refinement and difference fourier methods may be employed. The structure of HDLP-related proteins (e.g. HDAC1) comprise no greater than a 2.0 Å root mean square deviation (rmsd) in the positions of the $C\alpha$ atoms for at least 50% or more of the amino acids of the full-length HDLP structure.

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The present invention also provides a nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant having the amino acid sequence of SEQ ID NO:3 and the nucleic acid sequence of SEQ ID NO:4. It is also contemplated by the invention that mutations be made in HDLP-related proteins at cysteine residues, as with the Cys75Ser/Cys77Ser double mutant, in order to facilitate the determination of the structure of said proteins bound to a zinc atom. Additionally, the present invention provides expression vectors which comprise the nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant encoded by the sequence represented by SEQ ID NO:4 operatively linked to expression control sequences.

It is another object of the present invention to provide methods for the design, identification and screening of potential inhibitor compounds of the HDLP/HDAC family. In a preferred embodiment the method for the rational design,

- 10 -

identification and screening of potential compounds for HDLP and HDLP-related proteins (e.g. HDACs) comprising deacetylase activity comprises the steps of: (a) using a three-dimensional structure of an HDLP as defined by the atomic coordinates of the present invention; employing said three-dimensional structure to design or select said potential inhibitor compound; (c) synthesizing and/or selecting said potential inhibitor; (d) contacting said potential inhibitor compound with said enzyme in the presence of acetylated substrate; and (e) determining the percent inhibition of deacetylase activity to determine the inhibitory activity of said potential inhibitor compound. In a further preferred embodiment, the binding properties of said rationally designed inhibitory compound may determined by a method comprising the steps of: (a) forming a complex comprising said inhibitory compound and HDLP or a HDLP-related protein, (b) co-crystallizing said inhibitory determining said compound-HDLP complex; (c) dimensional structure of said co-crystal through molecular replacement or refinement and difference fourier with the molecular coordinates of HDLP as defined by the present invention; and (d) analyzing the three-dimensional structure to determine the binding characteristics of said potential inhibitor compound.

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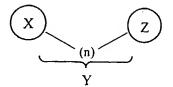
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It is a further object of the present invention to identify a defined class of HDLP/HDAC family inhibitor compounds. The HDLP/HDAC family inhibitor compounds of the present invention are represented by formula (I):

- 11 -

(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises and active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and may further bind to a zinc atom.

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Brief Description of the Drawings

Figure 1 is a table listing the statistics from the X-ray crystallographic analysis of a HDLP crystal, a HDLP-TSA cocrystal, and a HDLP-SAHA co-crystal.

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Figure 2 shows an alignment of various HDAC homologues with percent sequence identity depicted.

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Figure 3 shows a graph indicating the histone deacetylase activity of HDLP and HDAC1 and the inhibition of HDLP and HDAC1 by the inhibitors TSA and HC-toxin.

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Figure 4 shows (A & B) a schematic representation of the $HDLP-Zn^{2+}-TSA$ complex in two approximately orthogonal views, (C) a topology diagram of HDLP indicating the regions of homology with HDAC1, and (D) a close-up schematic representation of the $HDLP-Zn^{2+}-SAHA$ complex.

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Figure 5 shows (A) a schematic representation of a slice through a surface representation of HDLP with the pocket internal cavities and position of the β sheet indicated, (B) a schematic representation of a close-up view of the active site looking down into the pocket in an orientation similar to Figure 4B.

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Figure 6 shows (A) a space-filling representation of TSA in the active site pocket, (B) a closeup stereo view of the structure of the $HDLP-ZN^{2+}-TSA$ complex in a similar orientation to Figure 4B, and (C) a schematic representation of the HDLP-TSA interactions.

Figure 7 shows (A) a schematic representation of the regions of homology shared between HDLP and HDAC1 in an orientation similar to that of Figure 4A, and (B) a detailed schematic representation of the homology shared in the pocket and internal cavity between HDLP and HDAC1 in an orientation similar to that of Figure 4B.

Figure 8 shows a schematic representation of the proposed catalytic mechanism for the deacetylation of acetylated lysine.

Figure 9 shows a schematic representation of a space filling diagram showing the conserved amino acids in the active site and nearby grooves.

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Figure 10 is the nucleic acid sequence of HDLP from Aquifex aeolicus (SEQ ID NO. 2).

Figure 11 is the amino acid sequence of full length HDLP from Aquifex aeolicus (SEQ ID NO. 1).

Figure 12 is the nucleic acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 6).

Figure 13 is the amino acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 5).

Figure 14 is the nucleic acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 4).

- 14 -

Figure 15 is the amino acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 3).

Figure 16-1 to 16-49 lists the atomic structure coordinates for HDLP as derived by X-ray diffraction from a crystal of HDLP.

Figure 17-1 to 17-49 lists the atomic structure coordinates

for HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc

atom in the active site as derived by X-ray diffraction from

a crystal of the HDLP Cys75Ser/Cys77Ser double mutant.

Figure 18-1 to 18-99 lists the atomic structure coordinates

for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray
diffraction from a co-crystal of HDLP complexed with TSA.

Figure 19-1 to 19-48 lists the atomic structure coordinates for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray diffraction from a co-crystal of HDLP complexed with SAHA.

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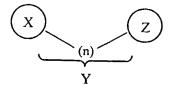
- 15 -

Detailed Description of the Invention

The present invention provides crystals of a histone deacetylase (HDAC) homologue grown in the presence and absence of a compound capable of inhibiting the histone deacetylase activity of said HDAC homologue. As referred to herein, a HDAC homologue (as well as a HDLP-related protein) is any protein molecule having (a) greater than 15% sequence identity to over the 375 amino acid residues of HDLP; (b) having no more than twenty insertions or deletions for a total of no more than 100 amino acids; and (c) deacetylase activity. Sequence identity is calculated by the program DNAstar™ using the identity matrix weighing scheme clustal method (DNAstar program, Madison, WI).

A HDLP/HDAC inhibitor compound, as used herein, refers to any compound represented by Formula (I):

(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of tyrosine, proline and leucine; Y comprises an aliphatic chain group from about 5 to about 10 Å, preferably 7Å, which binds to at least one amino acid selected from the group consisting of phenylalanine and glycine; and Z comprises a active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and which may further bind to a zinc atom. The HDAC inhibitory compounds of the present

- 16 -

invention can inhibit greater than 50% of the histone deacetylase activity of a HDAC homologue or a HDLP-related protein.

To grow the crystals of the present invention, the HDAC and HDAC-inhibitory compound complex are purified to greater than 80% total protein and more preferably purified to greater than 90% total protein. For expression and purification purposes, the full-length HDLP (Genbank accession number AE000719) may be subcloned from Aquifex aeolicus chromosomal DNA preparation by the polymerase chain reaction (PCR) and inserted into an expression vector.

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A large number of vector-host systems known in the art may be used. Possible vectors include, but are not limited to, plasmids or modified viruses, but the vector system must be compatible with the host cell used. Examples of vectors include E. coli bacteriophages such as lambda derivatives, or plasmids such as pBR322 derivatives or pUC plasmid e.g., pGEX vectors (Amersham-Pharmacia, derivatives, Piscataway, New Jersey), pET vectors (Novagen, Madison, WI), pmal-c vectors (Amersham-Pharmacia, Piscataway, New Jersey), pFLAG vectors (Chiang and Roeder, 1993, Pept. Res. 6:62-64), baculovirus vectors (Invitrogen, Carlsbad, CA; Pharmingen, San Diego, CA), etc. The insertion into a cloning vector can, for example, be accomplished by ligating the DNA fragment into a cloning vector which has complementary cohesive termini, by blunt end ligation if no complementary cohesive termini are available or by through nucleotide linkers using techniques standard in the art. E.g., Ausubel et al. (eds.), Current Protocols in Molecular

- 17 -

Biology, (1992). Recombinant vectors comprising the nucleic acid of interest may then be introduced into a host cell compatible with the vector (e.g. E. coli, insect cells, mammalian cells, etc.) via transformation, transfection, infection, electroporation, etc. The nucleic acid may also be placed in a shuttle vector which may be cloned and propagated to large quantities in bacteria and then introduced into a eukaryotic cell host for expression. The vector systems of the present invention may provide expression control sequences and may allow for the expression of proteins in vitro.

In a preferred embodiment, the full length HDLP (SEQ ID NO:2) is subcloned from Aquifex aeolicus chromosomal DNA preparation into pGEX4T3 (Amersham-Pharmacia, Piscataway, New Jersey). In order to construct a double mutant comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO:4), and to construct the HDLP active site mutant Tyr297Phe (SEQ ID NO:5 and SEQ ID NO:6), PCR site directed mutagenesis may be employed with verification by DNA sequencing by methods known to those skilled in the art (see, e.g., Example 1 below). The mutants of the present invention may be subcloned into a suitable expression vector and introduced into a host cell for protein production, as described above.

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The HDLP nucleic acids of the present invention may be subcloned into an expression vector to create an expression construct such that the resultant HDLP molecule which is produced comprises a fusion protein wherein said fusion protein comprises a tag for ease of purification. As referred to herein, a "tag" is any additional amino acids

- 18 -

which are provided in a protein either c-terminally, nterminally or internally for the ease of purification, for the improvement of production or for any other purpose which may facilitate the goals of the present invention (e.g. to achieve higher levels of production and/or purification). Such tags include tags known to those skilled in the art to be useful in purification such as, but not limited to, his tag, glutathione-s-transferase tag, flag tag, mbp (maltose binding protein) tag, etc. In a preferred embodiment, the wild-type and mutant HDLPs of the present invention are tagged with glutathione-s-transferase (see Example 1 below). In another preferred embodiment, HDAC1 is flag tagged (see Example 1 below). Such tagged proteins may also be engineered to comprise a cleavage site, such as a thrombin, enterokinase or factor X cleavage site, for ease of removal of the tag before, during or after purification. systems which provide a tag and a cleavage site for removal of the tag are particularly useful to make the expression constructs of the present invention.

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The tagged HDLPs and HDACs of the present invention may be purified by immuno-affinity or conventional chromatography, including but not limited to, chromatography employing the glutathione-sepharose™ (Amersham-Pharmacia, following: Piscataway, New Jersey) or an equivalent resin, nickel or cobalt-purification resins, anion exchange chromatography, cation exchange chromatography, hydrophobic resins, gel filtration, antiflag epitope resin, reverse chromatography, etc. After purification, the HDLP and HDLPinhibitor compound complex may be concentrated to greater than 1 mg/ml for crystallization purposes. In a preferred HDLP and HDLP-inhibitor complexes embodiment

- 19 -

concentrated to greater than 10 mg/ml for crystallization and in a particularly preferred embodiment, HDLP and HDLP-inhibitor complexes are concentrated to greater than 20 mg/ml.

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In order to determine whether the purified HDLPs of the present invention demonstrate histone deacetylase activity, the purified HDLPs and also any HDLP-related protein may be assayed by any method known to those skilled in the art for the determination of said activity. In a preferred embodiment, the purified HDLPs of the present invention are incubated in the presence of [3H]acetyl-labeled histone substrate (Carmen et al., 1996, J. Biol. Chem. 271:15837-15844) in a buffer suitable for detection of histone deacetylase activity (see Example 3 below); stopping the reaction; extracting the released acetate and measuring said released acetate, as described by Henzel et al. (J. Biol. Chem. <u>266</u>:21936-21942 (1991); Example 3 below). preferred embodiment, the HDLPs of the present invention are inclubated in the presence of ${\rm ZnCl}_2$ in order to obtain histone deacetylase activity therefrom (Example 3 below).

In another embodiment, the crystals of the present invention comprise purified wild-type HDLP (SEQ ID NO:1) and are grown at room temperature by the hanging-drop vapor-diffusion method from a crystallization solution comprising one or more precipitants selected from the group consisting of isopropanol, polyethylene glycol, and tert butanol (see Example 2 below). The crystallization solution may further comprise one or more salts including salts selected from the group consisting of NaCl and KCl, and one or more buffers

- 20 -

including buffers selected from the group consisting of Tris (tris(hydroxymethyl)aminomethane and bis-tris propane-Cl (1,3-bis[tris(hydroxymethyl)methyl-amino] propane) (see Example 2 below). The pH of the crystallization solution is preferably between pH 5 to 9, although other pH values are also contemplated by the present invention (see Example 2 below).

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Any crystallization technique known to those skilled in the art may be employed to obtain the crystals of the present invention, including, but not limited to, batch crystallization, vapor diffusion (either by sitting drop or hanging drop) and micro dialysis. Seeding of the crystals in some instances may be required to obtain X-ray quality crystals. Standard micro and/or macro seeding of crystals may therefore be used.

The crystals of the present invention may form in the space group C2 with one molecule in the asymmetric unit and with unit dimensions of a=51.4 Å, b=93.8 Å, c=78.7 Å and $\beta=96.9^{\circ}$ (see Example 2 below). The crystals of the present invention may also form in the space group $P2_12_12_1$ with two molecules in the asymmetric unit and with unit dimensions of a=53.4 Å, b=94.4 Å, c=156.3 Å (see Example 2 below). However, the present invention contemplates crystals which form in any space group including, but not limited to, C2, $P2_1$, $P2_12_12_1$, $P3_121$, $P4_32_12_1$, and $C222_1$. The crystals diffract to a resolution greater than 4 Å, preferably greater than 2.5 Å.

To collect diffraction data from the crystals of the present

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invention, the crystals may be flash-frozen crystallization buffer employed for the growth of said crystals, however with preferably higher precipitant concentration (see, e.g., Example 2 below). For example, but not by way of limitation, if the precipitant used was 28% PEG 1500, the crystals may be flash frozen in the same crystallization solution employed for said crystal growth wherein the concentration of the precipitant is increased to 35% (see Example 2 below). If the precipitant is not a sufficient cryoprotectant (i.e. a glass is not formed upon flash-freezing), cryoprotectants (e.g. glycerol. molecular weight PEGs, alcohols, etc) may be added to the solution in order to achieve glass formation upon flashfreezing, providing the cryoprotectant is compatible with preserving the integrity of the crystals. The flash-frozen crystals are maintained at a temperature of less than -110°C and preferably less than -150°C during the collection of the crystallographic data by X-ray diffraction. diffraction data may be processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method Ensemble. 276:307-326) but any method known to those skilled in the art may be used to process the X-ray diffraction data.

In order to determine the atomic structure of HDLP according to the present invention, multiple isomorphous replacement (MIR) analysis, model building and refinement may be performed. For MIR analysis, the crystals may be soaked in heavy-atoms to produce heavy atom derivatives necessary for MIR analysis. As used herein, heavy atom derivative or derivitization refers to the method of producing a chemically modified form of a protein or protein complex

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crystal wherein said protein is specifically bound to a heavy atom within the crystal. In practice a crystal is soaked in a solution containing heavy metal atoms or salts, or organometallic compounds, e.g., lead chloride, gold cyanide, thimerosal, lead acetate, uranyl acetate, mercury chloride, gold chloride, etc, which can diffuse through the crystal and bind specifically to the protein. location(s) of the bound heavy metal atom(s) or salts can be determined by X-ray diffraction analysis of the soaked crystal. This information is used to generate MIR phase information which is used to construct the three-dimensional structure of the crystallized HDLPs and HDLP-related proteins of the present invention. In a preferred embodiment, the heavy atoms comprise thimerosal, KAu(CN)2 and Pb(Me)₃OAc (see Example 2 below). The MIR phases may be calculated by any program known to those skilled in the art and preferably with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 1994, Crystallogr. D. 50:760-763) and may also use the anomalous diffraction signal from the thimerosal derivative. preferred embodiment, the MIR phases were calculated at 2.5 Å and have a mean figure of merit of 0.55 (see Figure 19 and The phases may be improved where Example 2 below). necessary by solvent flattening by methods known to those skilled in the art including, but not limited to, through the use of the program DM (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D <u>50</u>:760-763).

30 Thereafter, an initial model of the three-dimensional structure may be built using the program O (Jones et al.,

1991, Acta Crystallogr. A $\underline{47}$:110-119). The interpretation and building of the structure may be further facilitated by use of the program CNS (Brunger et al., 1998, Acta Crystallogr. D $\underline{54}$:905-921).

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For the determination of the HDLP-inhibitor compound complex structure, if the space group of the HDLP-inhibitor compound complex crystal is different, molecular replacement may be employed using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure whose structure may be determined as described above and below in Example 2. If the space group of the HDLP-inhibitor compound crystals is the same, then rigid body refinement and difference fourier may be employed to solve the structure using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure.

The term "molecular replacement" refers to a method that involves generating a preliminary model of the three-dimensional structure of the HDLP crystals of the present invention whose structure coordinates are unknown prior to the employment of molecular replacement. Molecular replacement is achieved by orienting and positioning a molecule whose structure coordinates are known (in this case the previously determined apo-HDLP) within the unit cell as defined by the X-ray diffraction pattern obtained from an HDLP or HDLP-related protein crystal whose structure is

unknown so as to best account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This in turn can be subject to any of several forms of refinement to provide a final, accurate structure.

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Any method known to the skilled artisan may be employed to determine the structure by molecular replacement. example, the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D. 50:760-763) may be employed to determine the structure of an unknown histone deacetylase +/- an inhibitor by molecular replacement using the apo-HDLP coordinates (Figure 16). For the structure determination of the inhibitory compound TSA, the structure of TSA was obtained from the Cambridge Database (Refcode TRCHST, Structural http://www.ccdc.cam.ac.uk >>) may be employed to define the stereochemical restraints used in the refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D <u>54</u>:905-921).

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP are useful for solving the structure of crystallized proteins which belong to the HDAC family by molecular replacement. Similarly, any structure of a crystallized protein which is thought to be similar in structure based on function or sequence similarity or identity to HDLP may be solved by molecular replacement with the HDLP structural

information of the present invention. The structure of HDLP-related proteins as determined by molecular replacement as described above and in Example 2 below, comprise a root mean square deviation (rmsd) of no greater than 2.0 Å in the positions of $C\alpha$ atoms for at least 50% or more of the amino acids of the structure over the 375 residues of full-length HDLP. Such a rmsd may be expected based on the amino acid sequence identity. Chothia & Lesk, 1986, Embo J. 5:823-826.

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The refined three-dimensional HDLP structures of the present 10 invention, specifically apo-HDLP, Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site, HDLP/TSA complex comprising a zinc atom in the active site, and HDLP/SAHA complex comprising a zinc atom in the active site, are represented by the atomic coordinates set forth in 15 Figures 16 to 19 respectively. The refined model for apo-HDLP comprising amino acids 1-375 consists of wild-type HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution 20 of 1.8 Å. Similarly, the refined Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site also consists of residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution of 2.0 Å. The refined model for the HDLP/TSA complex comprising a zinc atom in the 25 active site consists of the Cys75Ser/Cys77Ser double mutant HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered, has TSA in the binding pocket and was determined to a resolution of 2.1 $\hbox{\normalfont\AA}$. HDLP/SAHA complex is similar to the HDLP/TSA complex but has 30 SAHA in the binding pocket and was determined to a resolution of 2.5 Å.

For the purposes of further describing the structure of HDLP and HDLP-related proteins, including, but not limited to, HDACs, from the data obtained from the HDLP crystals of the present invention, the definition of the following terms is provided:

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The term " β sheet" refers to two or more polypeptide chains (or β strands) that run alongside each other and are linked in a regular manner by hydrogen bonds between the main chain C=O and N-H groups. Therefore all hydrogen bonds in a beta-sheet are between different segments of polypeptide. Most β -sheets in proteins are all-parallel (protein interiors) or all-antiparallel (one side facing solvent, the other facing the hydrophobic core). Hydrogen bonds in antiparallel sheets are perpendicular to the chain direction and spaced evenly as pairs between strands. Hydrogen bonds in parallel sheets are slanted with respect to the chain direction and spaced evenly between strands.

The term "\alpha helix" refers to the most abundant helical 20 conformation found in globular proteins. The average length of an α helix is 10 residues. In an α helix, all amide protons point toward the N-terminus and all carbonyl oxygens point toward the C-terminus. The repeating nature of the phi, psi pairs ensure this orientation. Hydrogen bonds 25 within an α helix also display a repeating pattern in which the backbone C=O of residue X (wherein X refers to any amino acid) hydrogen bonds to the backbone HN of residue X+4. The α helix is a coiled structure characterized by 3.6 residues per turn, and translating along its axis 1.5 Å per 30 amino acid. Thus the pitch is 3.6x1.5 or 5.4 Å. The screw sense of alpha helices is always right-handed.

The term "loop" refers to any other conformation of amino acids (i.e. not a helix, strand or sheet). Additionally, a loop may contain bond interactions between amino acid side chains, but not in a repetitive, regular fashion.

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Amino acid residues in peptides shall herein after be abbreviated as follows: Phenylalanine is Phe or F; Leucine is Leu or L; Isoleucine is Ile or I; Methionine is Met or M; Valine is Val or V; Serine is Ser or S; Proline is Pro or P; Threonine is Thr or T; Alanine is Ala or A; Tyrosine is Tyr or Y; Histidine is His or H; Glutamine is Gln or Q; Asparagine is Asn or N; Lysine is Lys or K; Aspartic Acid is Asp or D; Glutamic Acid is Glu or E; Cysteine is Cys or C; Tryptophan is Trp or W; Arginine is Arg or R; and Glycine is Gly or G. For further description of amino acids, please refer to Proteins: Structure and Molecular Properties by Creighton, T.E., W.H. Freeman & Co., New York 1983.

The term "positively charged amino acid" refers to any amino acid having a positively charged side chain under normal physiological conditions. Examples of positively charged amino acids are Arg, Lys and His. The term "negatively charged amino acid" refers to any amino acid having a negatively charged side chain under normal physiological conditions. Examples of negatively charged amino acids are Asp and Glu. The term "hydrophobic amino acid" refers to any amino acid having an uncharged, nonpolar side chain that is relatively insoluble in water. Examples of hydrophobic amino acids are Ala, Leu; Ile, Gly, Val, Pro, Phe, Trp and Met. The term "hydrophilic amino acid" refers to any amino acid having an uncharged, polar side chain that is

- 28 -

relatively soluble in water. Examples of hydrophilic amino acids are Ser, Thr, Tyr, Asp, Gln, and Cys. The term "aromatic amino acid" refers to any amino acid comprising a ring structure. Examples of aromatic amino acids are His, Phe, Trp and Tyr.

The term "charge relay system" refers to a His-Asp arrangement as described by Fersht & Sperling, 1973, J. Mol. Biol. 74:137-149; Blow et al., 1969, Nature 221:337-340.

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The information obtained from the three-dimensional structures of the present invention reveal that HDLP has a single-domain structure that belongs to the open α/β class of folds (see, e.g., Branden, 1980, Q. Rev. Biophys. 13:317-38). Two orthogonal views of the overall threedimensional structure of HDLP are depicted in Figure 4A and The HDLP structure has a central eight-stranded parallel β sheet (strands arranged as $\beta 2 - \beta 1 - \beta 3 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 4 - \beta 5 - \beta 8 - \beta 7 - \beta 8 -$ β 6), and sixteen α helices (labeled α 1 through α 16 respectively). See Figure 4C. Four of the helices pack on either face of the β sheet (α 7, α 8, α 9, α 10 and α 11, α 12, α 13, α 14) forming the core α/β structure characteristic of this class of folds. Most of the remaining eight helices are positioned near one side of the β sheet, near stands β 2β1-β3-β8. Large, well defined loops (Loops L1-L7; Figure 4C) originate from the C-terminal ends of the β -strands. The extra helices and the large L1-L7 loops are associated with a significant extension of the structure beyond the core α/β motif. This extension of the structure gives rise to two prominent architectural features: a deep, narrow pocket and an internal cavity adjacent to the pocket. These

- 29 -

two architectural features comprise the active site (see Figure 5A). The structure of HDLP-related proteins (e.g. HDACs) may also comprise the conserved α/β structure characteristic.

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The term "active site" comprises any or all of the following sites in HDLP, the substrate binding site, the site where the cleavage of an acetyl group from a substrate occurs or the site where an inhibitor of the HDAC family or, more particularly, HDLP binds. The active site, as referred to herein, comprises Aspl66, Asp258, His170, Tyr297, His131, His132, Aspl68, Asp173, Phe141, Phe198, Leu265, Pro22 and Gly140, and also a metal bound at the bottom of the pocket by Asp173, Aspl68 and His defined by the coordinates listed in Figures 16 to 19 with an rmsd of 2.0 Å. The metal which binds at the bottom of the pocket will be a divalent cation selected from the group consisting of zinc, cobalt or manganese.

The deep narrow pocket has a tube-like shape with a depth of ~ 11 Å. The pocket opening constricts half way down to ~ 4.5 by 5.5 Å, and becomes wider at the bottom (see Figure 5A). The pocket and its immediate surroundings are made up of loops L1 through L7.

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The walls of the pocket are covered with side chains of hydrophobic and aromatic residues (Pro22, Tyr91 near the entrance; and Gly140, Phe141, Phe 198, Leu265 and Tyr297 further down; Figure 5B). For numbering of amino acids please refer to SEQ ID NO:1. Of particular interest are Phe141 and Phe198, whose phenyl groups face each other in

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parallel at a distance of 7.5 Å, marking the most slender portion of the pocket (see Figure 5B). Of particular interest is that only one pocket residue differs in HDAC1 when the sequences are aligned (alignment may be accomplished using DNAstar™ MegAlign™ program, Madison, WI), this residue is Glu98 of HDAC1 which is Tyr91 in HDLP. The structure reveals that this residue in HDLP is mostly solvent exposed.

Near the bottom of the pocket of the active site at its narrowest point, is located a zinc ion (see Figure 6A). In order to obtain the zinc in the structure, the crystals may be soaked in zinc (e.g. ZnCl₂) or co-crystalized in the presence of zinc. The zinc ion is coordinated by Aspl68 (Oδ1, 2.1 Å), His170 (Nδ1, 2.1 Å), Asp258 (Oδ1, 1.9 Å) and a water molecule (2.5 Å). See Figure 5B and 6B. The amino acid residues that coordinate zinc are arranged in a tetrahedral geometry, but the position of the water molecule, which is also hydrogen bonded to His131, deviates from this geometry by ~25°.

In addition to the zinc ligands, the bottom of the pocket contains two histidine (Hisl31 and Hisl32), two aspartic acids (Asp166 and Asp173) and a tyrosine (Tyr297). See Figure 5B and 10B. Each of the histidines makes a hydrogen bond through its $N\delta 1$ to an aspartic acid carboxylate oxygen, with the oxygen located in the plane of the imidizole ring (Figure 5B). This His-Asp arrangement is characteristic of the charge relay system present in the active sites of serine proteases, where it serves to polarize the imidizole Ne and increase its basicity. Fersht & Sperling, 1973, J.

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Mol. Biol. <u>74</u>:137-149; Blow et al., 1969, Nature <u>221</u>:337-340.

The Asp166-His131 charge pair relay (hereafter referred to as "buried charged relay") is positioned even deeper in the pocket and more buried compared to the Asp173-His132 charge relay (hereafter referred to as "exposed charge relay") which is partially solvent exposed. The buried charge relay makes a hydrogen bond (2.6 Å) to the zinc-bound water molecule referred to above, and this hydrogen bond could contribute to the deviation of the water-zinc coordination from ideal geometry (Figure 5B). The exposed charge relay is directed to a point ~ 2.5 Å away from the water molecule and closer to the surface.

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Tyr 297 is positioned next to the zinc, opposite from where the two charge relay systems are located. The Tyr hydroxyl group lies 4.4 Å away from the zinc atom and has no interactions with the rest of the protein (Figure 5B). Next to Tyr297, there is an opening in the pocket wall, which leads to the adjacent internal cavity.

The floor of the internal cavity is made up of portions of the L3 and L7 loops as they emerge from the β strands, and the roof is made up by the $\alpha 1\text{-L} 1-\alpha 2$ segment. The L1 loop appears more flexible than other loops in the structure. This may allow the transient exchange of the cavity contents with the bulk solvent.

The cavity is lined primarily with hydrophobic residues and is particularly rich in glycine residues (Ala127, Gly128, Gly129, Met130, and Phe141 of L3; Gly293, Gly294, Gly295 and

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Gly296 of L7; and Tyr17, Pro22 and Leu23 of L1). There are only two charged residues in the cavity (Arg27 and His 21) and these are contributed by the L1 loop.

The cavity may provide space for the diffusion of the acetate product away from the catalytic center, which may otherwise be crowded and shielded during deacetylation from the solvent when the substrate is bound. Such a role for the cavity is supported by the observation that the cavity contains three water and two isopropanol molecules (from the crystallization buffer) in the 1.8 Å apo-protein structure. The cavity may also bind another cofactor, in addition to zinc, for the facilitation of the enzymatic activity of the HDLP. A proposed catalytic mechanism for deacetylation is provided in Figure 8.

The structure of HDLP as defined by the present invention, in conjunction with the HDAC1 sequence homology, shows that the 375-amino acid HDLP protein corresponds to the histone deacetylase catalytic core which is conserved across the HDAC family (see Figure 2). The 35.2% HDLP-HDAC1 sequence identity predicts structural similarity with a rmsd in Ca positions of ~ 1.5 Å. Chothia and Lesk describe the relation between the divergence of sequence and structure of proteins in Embo J. 5:823-826 (1986). The 40residue C-terminus of HDLP is likely to have a divergent structure since this region has lower homology to HDAC1, although the α 16 helix in this region is part of the conserved open α/β core fold and HDAC1 is likely to comprise a similar helix. However divergent this C-terminal region may be, this region is outside the active site and is likely to not effect the structure of the active site.

- 33 -

C-terminus of the histone deacetylase catalytic core, HDAC family members are divergent in length and sequence. In the HDAC family, this region (amino acid residues ~390-482) is highly polar, populated with acidic residues, and is likely to be flexible or loosely folded.

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The HDLP-HDAC homology maps primarily to the hydrophobic core and to the L1-L7 loops, with portions of the loops that make up the pocket and adjacent cavity having the highest level of amino acid residue sequence conservation (Figure 9A and 9B). Specifically, all of the polar residues in the active site (the zinc ligands, the two charge relay systems, and Tyr297) and the hydrophobic residues that make up the walls of the pocket (Gly140, Phe141, Phe198 and Leu265) are identical. Among the residues that make up the internal cavity, the ones closest to the active site are either identical or conservatively substituted (for example, Leu23 \rightarrow Met and Met130 \rightarrow Leu). Surface residues around the pocket are conserved to a lesser extent, but are still above 35% average sequence identity.

The information obtained from the inhibitor-bound HDLP complex crystal structures of the present invention reveal detailed information which is useful in the design, isolation, screening and determination of potential inhibitor compounds which may inhibit HDLP/HDAC family members. As described above, the HDLP structure consists of a parallel $\boldsymbol{\beta}$ sheet with $\boldsymbol{\alpha}$ helices packing against both faces (Figure 4A, 4B, and 4C). At one end of the β sheet, 7 loops (L1-L7) form a narrow, tube-like pocket which are lined with hydrophobic residues and which comprise a zinc binding site, several polar side chains, including two Asp-His charge

- 34 -

relay systems. Mutation of the zinc ligands and other polar residues at the pocket bottom reduces or eliminates the catalytic activity.

The present inventors found that mutation at the Tyr297Phe site reduced activity. See also, Hassig et al., 1998, Proc. Natl. Acad. Sci. USA 95:3519-3524; Kadosh & Struhl, 1998, Genes Dev. 12:797-805. The elimination of activity by mutation of these residues indicates that this region is the enzyme active site. Adjacent to the active site, there is an internal cavity that may provide space for the diffusion of the acetate reaction product. Homology at the active site between HDLP and HDAC1, as described above, indicates that they share structural and functional homology.

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The inhibitor compound, trichostatin A (TSA) (Tsuji et al., 1976, J. Antibiotics 29:1-6) binds HDLP by inserting its long aliphatic chain, which has a hydroxamic acid group at one end, into the pocket (Figure 6A, 6B and 6C). aliphatic chain makes multiple contacts in the well-like, hydrophobic portion of the pocket. The hydroxamic acid reaches the polar bottom of the pocket, where it coordinates the zinc in a bidentate fashion and also forms hydrogen bonds with the polar residues in the active site, including the two charge relay system histidines. dimethylamino-phenyl group at the other end of the TSA chain makes contacts at the pocket entrance and serves to cap it. The amino acid residues of HDLP which contact TSA are conserved in HDAC, indicating that TSA binds and inhibits HDAC in a similar fashion to HDLP.

In the complex, the hydroxamic acid, most of the aliphatic chain and part of the dimethylamino-phenyl group of TSA are buried (60% of TSA's surface area; Figure 6A). The hydroxamic acid group binds the zinc in a bidentite fashion forming bonds through its carbonyl (2.4 Å) and hydroxyl groups (2.2 Å) resulting in a penta-coordinated Zn²+ (Figure 6B and 6C). The hydroxamic acid hydroxyl group replaces the water molecule that binds to the zinc in the apo-HDLP structure described above. The hydroxamic acid also hydrogen bonds with both charge relay system histidines (hydroxyl oxygen to His131 Ne2, 2.8 Å; and nitrogen to His132 Ne2, 2.8 Å), and the Tyr297 hydroxyl group (2.4 Å; Figure 6B and 6C).

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The 5-carbon long branched alkene chain of TSA fits snugly 15 in the narrow portion of the pocket making multiple van der Waals contacts with all of the hydrophobic groups lining the pocket (Figure 6B and 6C). Near its center, the chain contains a methyl substituted carbon-carbon double bond 20 which is sandwiched between the phenyl groups of the Phe141 and Phe98 at the tightest point of the pocket (Figure 6A and The length of the alkene chain appears optimal for 6B). spanning the length of the pocket, and allowing contacts both at the bottom and at the entrance of the pocket, although, the cap group of Formula (I) may provide length to 25 span the pocket allowing for a shorter alkene chain (aliphatic chain).

At the entrance of the pocket, one face of the planar structure formed by the dimethylamino-phenyl and adjacent carbonyl groups of TSA makes contacts at the rim of the pocket (Pro22, Tyr91, Phe141; Figure 6B and 6C). This

packing is facilitated by the roughly 110° angle in the overall structure of TSA at the junction of the aliphatic chain and the dimethylamino-phenyl group (occurring at the sp³ hybridized C8 carbon). Upon TSA binding, the side chain of Tyr91, which is mostly solvent exposed, changes conformation to make space for the dimethylamino-phenyl group. This is the only change near the active site observed upon TSA binding.

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1.0 The hydroxamic acid group is a common motif in zinc metalloprotease inhibitors. See U.S. Patent No. 5,919,940 and 5,917,090; See also, Grams et al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920. Like TSA, these inhibitors also coordinate 15 the active site zinc in a bidentate fashion using their hydroxamate hyroxyl and carbonyl oxygens, replace the nucleophilic water molecule with their hydroxamate hydroxyl groups and form hydrogen bonds to the general base (Grams et 20 al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920).

SAHA, which has a ~30-fold weaker inhibitory activity than TSA (Richon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3003-3007), binds HDLP similarly to TSA (see, e.g., Figure 4D). The SAHA hydroxamic acid group makes the same contacts to the zinc and active site residues, and the importance of these interactions is underscored by the loss of activity of SAHA derivatives lacking the hydroxamic group (Richon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3003-

the tube-like hydrophobic portion of the pocket. Compared to TSA however, SAHA's aliphatic chain packs less snugly and makes fewer van der waals contacts, in part, because SAHA lacks TSA's C15 methyl group branch. SAHA also lacks TSA's double bonds in this region, and this may lead to increased flexibility of the aliphatic chain. The cap group of SAHA consists of a phenyl-amino ketone group. In the crystal structure, the phenyl group has weak electron density, suggesting that it does not pack as well as the cap group of TSA. This may be due to the larger separation between the hydroxamic and cap groups of SAHA compared to TSA (compare TSA, Formula (III) and SAHA, Formula (III), below).

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25 (III)

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The determination of the structure of HDLP and HDLP bound to an inhibitory compound has enabled, for the first time, the identification of the active site of HDLP and of related HDLP proteins, such as proteins belonging to the HDAC family.

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP bound to an inhibitory compound is useful in rational drug design providing for a method of identifying inhibitory compounds which bind to and inhibit the enzymatic activity of HDLP, HDAC family proteins and other histone deacetylaselike proteins related to HDLP. Said method for identifying potential inhibitor for an enzyme comprising deacetylase activity comprises the steps of (a) using a three-dimensional structure of HDLP as defined by its atomic coordinates listed in Figure 16 to 19; (b) employing said three-dimensional structure to design or select said potential inhibitor; (c) synthesizing said potential inhibitor; (d) contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and (e) determining the ability of said inhibitor to inhibit said deacetylase activity.

The potential HDLP and HDLP-related (e.g. HDAC) inhibitors identified by the method of the present invention are represented by formula (I)

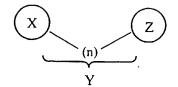
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(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises an active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and wherein Z may further bind to a zinc atom and with the provision that the compound of Formula (I) is not TSA, trapoxin, SAHA, SAHA derivatives described in U.S. Patent Nos. 5,608,108; 5,700,811; 5,773,474; 5840,960 and 5,668,179.

The present invention permits the use of molecular design techniques to design, identify and synthesize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site of HDLP and HDLP-related proteins. The atomic coordinates of apo-HDLP and inhibitor-bound HDLP may be used in conjunction with computer modeling using a docking program such as GRAM, DOCK, HOOK or AUTODOCK (Dunbrack et al., 1997, Folding & Design 2:27-42) to identify potential inhibitors of HDLP and HDLP-related proteins (e.g. HDAC1). This procedure can include computer fitting of potential inhibitors to the active site of HDLP to ascertain how well the shape and the

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the potential structure of inhibitor complement the active site or to compare the potential inhibitors with the binding of TSA or SAHA in the active See Bugg et al, 1998, Scientific American December: 92-98; West et al., 1995, TIPS 16:67-74. potential inhibitors designed by modeling with a docking program conform to the general formula (I) as described Computer programs may also be employed to estimate above. the attraction, repulsion and stearic hindrance of the HDLP and potential inhibitor compound. Generally, the tighter the fit, the lower the stearic hindrances, the greater the attractive forces, and the greater the specificity which are important features for a specific inhibitory compound which is more likely to interact with HDLP and HDLP-related proteins rather than other classes of proteins. features are desired particularly where the inhibitory compound is a potential antitumor drug.

The compounds of the present invention may also be designed by visually inspecting the three-dimensional structure to determine more effective deacetylase inhibitors. This type of modeling may be referred to as "manual" drug design. Manual drug design may employ visual inspection and analysis using a graphics visualization program such as "O" (Jones, T.A., Zhou, J.Y., Cowan, S.W., and Kjeldgaard, M., Improved method for building protein models in electron density maps and the location of errors in these models, Acta Crystallog., A47, 110-119.

Initially potential inhibitor compounds can be selected for their structural similarity to the X, Y and Z constituents

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- 41 -

of formula (I) by manual drug design. The structural analog thus designed can then be modified by computer modeling programs to better define the most likely effective candidates. Reduction of the number of potential candidates is useful as it may not be possible to synthesize and screen a countless number of variations compounds that may have some similarity to known inhibitory molecules. analysis has been shown effective in the development of HIV protease inhibitors (Lam et al., 1994, Science 263:380-384; Wlodawer et al., 1993, Ann. Rev. Biochem. 62:543-585; Appelt, 1993 Perspectives in Drug Discovery and Design $\underline{1}:23$ -48; Erickson, 1993, Perspectives in Drug Discovery and Design 1:109-128. Alternatively, random screening of an small molecule library could lead to potential inhibitors whose inhibitory activity may then be analyzed by computer modeling as described above to better determine their effectiveness as inhibitors.

The compounds designed using the information of the present invention may be competitive or noncompetitive inhibitors. These designed inhibitors may bind to all or a portion of the active site of HDLP and may be more potent, more specific, less toxic and more effective than known inhibitors for HDLP HDLP-related proteins, and and particularly HDACs. The designed inhibitors may also be less potent but have a longer half life in vivo and/or in vitro and therefore be more effective at inhibiting histone deacetylase activity in vivo and/or in vivo for prolonged periods of time. Said designed inhibitors are useful to inhibit the histone deacetylase activity of HDLP and HDLPrelated proteins (e.g. HDAC1), to inhibit cell growth in

- 42 -

vitro and in vivo and may be particularly useful as antitumor agents.

The present invention also permits the use of molecular design techniques to computationally screen small molecule data bases for chemical entities or compounds that can bind to HDLP in a manner analogous to the TSA and SAHA as defined by the structure of the present invention. computational screening may identify various groups which may be defined as "X", "Y" or "Z" of formula (I) above and may be employed to synthesize the potential inhibitors of the present invention comprising formula potential inhibitors may be assayed for histone deacetylase inhibitory activity in a histone deacetylase activity assay (see Example 3 below), may be co-crystallized with HDLP to determine the binding characteristics through X-ray crystallography techniques defined above (e.g. said cocrystal structure may be determined by molecular replacement to assess the binding characteristics of said potential inhibitor), or may be assessed based on binding activity by incubating said potential inhibitor with said HDLP, performing gel filtration to separate any free potential inhibitor to HDLP-bound inhibitor, and determining the amount of histone deacetylase activity of the inhibitorbound HDLP. To measure binding constants (e.g., Kd), methods known to those in the art may be employed such as Biacore™ analysis, isothermal titration calorimetry, Elisa with a known drug on the plate to show competitive binding, or by a deacetylase activity assay.

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- 43 -

The design of potential inhibitors of the present invention is further facilitated by reference to Figure 9, which is a surface representation figure that depicts the surface grooves. Analysis of such grooves gives insight into the constituents of the cap group of formula (I). The surface grooves are labeled groove A, groove A', groove B and groove C, into which additional cap groups may bind. The structure of HDLP bound to either TSA or SAHA shows that the cap groups of TSA and SAHA bind in groove A. By analysis of the amino acid sequence identity of HDLP and HDACs, Groove A is well conserved in HDACs, has a significant hydrophobic component, appears deep enough to allow for significant interactions and is also the largest of the four grooves. In addition to the dimethylamino phenyl group of the TSA, the A groove can fit approximately 200 daltons worth of groups (e.g. groove A could accommodate a naphthalene-like group after an appropriate spacer, etc.). Groove A, as referred to herein, is characterized by the following conserved residues of HDLP: His 21, Pro22, Lys24, Phe141, Leu265 and Phe335. The periphery of groove A comprises unconserved residues. Additionally, Groove A', as referred to herein, comprises primarily unconserved residues.

Groove B is immediately adjacent to the pocket. Of significance is that the bottom of groove B comprises the Nepsilon nitrogen of His170, which coordinates the zinc through its N-delta nitrogen. Significant binding energy may be achieved by contacting the Ne proton of His170 with a carboxylic acid or sulfate group. In addition, groove B may be large enough to fit a phenyl group, the face of which may comprise a partial negative charge which may pack over the N-epsilon proton of His170. The conserved residues of

- 44 ~

groove B, as referred to herein are: His170, Tyr196 and Leu265.

Groove C is not as well conserved as the other two grooves and the amino acid residues which comprise groove C are mostly polar and solvent exposed. Groove C, as referred to herein comprises the following conserved residues: Asn87, Gly140 and Phe198.

The compounds of the present invention are represented by formula (I):

(I)

X (n) Z

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Examples for suitable X constituents wherein X comprises a cap group may be described in three categories, depending upon which surface of groove A, A', B and/or C they are targeted to. The cap group may comprise all three categories on the same compound. Of particular benefit may be replacing the cap group of TSA or SAHA with a large, rigid structure. Nonlimiting examples for suitable cap groups (X) of formula (I) which may bind in groove A are: (1) attaching a 1-3 methyl linker followed by a phenyl or naphthalene group from the para or meta position of SAHA's phenyl group represented by formula (IV):

- 45 -

(IV)

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(2) attaching a 2-3 methyl linker followed by a phenyl or naphthalene group from the meta position of TSA's phenyl cap group, or from TSA's dimethyl amino group represented by formula (V):

(V)

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and which may bind in groove B is a 1-3 methyl group spacer followed by a carboxylate, sulfate or phenyl group as represented by formula (VI):

(VI)

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With respect to the aliphatic (Y) group, the diameter of the pocket suggests that one more methyl "side chain" could fit, in addition to the C15 methyl group on the C10 carbon. Nonlimiting suitable examples for Y constituents wherein Y comprises an aliphatic chain group are as follows: (1) add

- 46 -

a methyl group to TSA on the C12 carbon (with or without a methyl group on the C10 carbon and with or without double bonds and with or without substituting the X and/or Z constituents of formula (I)as represented by formula (VII):

5 (VII)

10 (2) add a methyl group to TSA on the C9 carbon (with or without a methyl group on the C10 carbon; with or without both or either of the double bonds, and with or without substituting the X and/or Z constituents of formula (I) as represented by formula (VIII):

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(VIII)

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(3) replace the two alkalene double bonds of TSA with only one between C10 and C11, which may free the C11 and C12 torsion to allow for a better fit, the X and/or Z groups may also be substituted as represented by formula (IX):

25 (IX)

(4) cyclize C15 and C12 carbons of TSA through a sulphur atom (or nitrogen atom), the X and/or Z groups may also be substituted as represented by formula (X):

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(5) extend from the C9 carbon of TSA such that the extension approaches and/or enters groove B (see Figure 9); making C9 sp3 so that it can have some freedom; attach to C9 a 1-3 methyl group spacer which may include a double bond and they attaching thereto a sulfate, carboxylate, sulfate, hyroxyl, or phenyl group which may make an interaction with the N-epsilon proton of His170 which may coordinate the zinc atom as represented by formula (XI):

(XI)

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$$\begin{array}{c|c} X & \begin{pmatrix} 1_{15} \\ 1_{10} \\ 1_{11} \\ 1_{12} \\ 1_{12} \\ 2_{11} \\ 2_{11} \\ 2_{11} \\ 2_{11} \\ 2_{11} \\ 2_{11} \\ 2_{11} \\ 2_{12} \\ 2_{11} \\ 2_{11} \\ 2_{12} \\ 2_{11}$$

25 (6) extend off the C8 carbon (replacing C14) of TSA such that the extension approaches or enters groove B; attach a 1-3 methyl group spacer (which may include a double bond) and then link thereto a carboxylate, sulfate, hydroxyl or phenyl group such that an interaction is made with the N-epsilon proton of His170 that coordinates the zinc atom; the X and/or Z constituents may also be substituted as represented by formula (XII):

- 48 -

(XII)

$$X \xrightarrow{\text{COOH}} \begin{cases} R_1 \\ (CH_2)n \\ (15) \\ (CH_2)n \\$$

(7) substitute the C8 carbon at the end of the aliphatic chain such that the substitution may contact groove A, A', B and or C, in such an example, a cap group (X) may or may not be required and the X and Z constituents may be substituted as well, as represented by formula (XIII):

(XIII)

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(8) formulas VII through XIII above wherein the aliphatic chain further comprises a methyl group between the active site binding group (Z) and the C8 carbon, and preferably just before the C8 carbon, increasing the distance between X and Z, (9) make the connection between the aliphatic chain and the cap group more rigid (e.g., by closing a 6-membered ring which may or may not comprise oxygen, the X and Z group may also be substituted as represented by formula <math>(XIV):

(XIV)

and (10) combining two or more of the changes depicted by formulas (VII-XIV).

Additionally, nonlimiting examples for suitable Z groups wherein Z comprises an active site binding group are as follows: (1) hydroxamic acid, (2) carboxylic acid, (3) sulfonamide, (4) acetamide, (5) epoxyketone, (6) an ester with a methyl linker and a hydroxyl of acetate ester group to lead into the cavity and interact with a conserved arginine (Arg27) as represented by formula (XV): (XV)

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and (7) an alphaketone as represented by formula (XVI): (XVI)

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Additionally, other suitable X, Y and Z constituents may be envisioned by the skilled artisan given the threedimensional structural information of the present invention.

After having determined potential suitable X, Y and Z constituents, the constituents are combined to form a compound of formula (I) using combinatorial chemistry techniques. This may be achieved according to U.S. Patent 5,608,108; 5,700,811; 5,773,474; 5,840,960 Nos. 5,668,179, incorporated herein by reference. Any methods

- 50 -

known to one of skill in the art may be employed to synthesize compounds of formula (I) comprising X, Y and Z constituents as determined by the methods described above.

As mentioned above, the compounds of formula (I) are useful to inhibit the histone deacetylase activity of HDLP and HDAC-related proteins. Such inhibition may allow for a reduction or cessation of cell growth in vitro and in vivo.

10 For in vitro use, such reduction or cessation of cell growth is useful to study the role of histone deacetylation and differentiation during the cell cycle and also to study other mechanisms associated with cell cycle arrest and particularly how the repression of transcription is involved 15 in cell cycle progression which may be studies in a yeast model system such as that described by Kadosh & Struhl, 1998, Mol. Cell. Biol. <u>18</u>:5121-5127. In vitro model systems which may be employed to study the effects of potential inhibitors on cell cycle progression and also tumor growth 20 include those described by: Richon et al, 1998, Proc. Natl. Acad. Sci. USA 95:3003-3007; Yoshida et al., 1995, Bioessays 17:423-430; Kim et al., 1999, Oncogene 18:2461-2470; Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; and Yoshida et al., 1987, Cancer Res. 47:3688-3691.

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For in vivo use, such a reduction or cessation of cell growth is useful to study the effect of said inhibitor compounds in non-human animal model systems of cancer and is also useful for the treatment of cancer in a recipient in need of such treatment. Non-limiting examples of animals which may serve as non-human animal model systems include

- 51 -

mice, rats, rabbits, chickens, sheep, goats, cows, pigs, and non-human primates. See, e.g., Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., 1999, Cancer Res., submitted. The compounds of the present invention may be administered to a transgenic non-human animal wherein said animal has developed cancer such as those animal models in which the animal has a propensity for developing cancer (e.g. animal model systems described in U.S. Patents 5,777,193, 5,811,634, 5,709,844, 5,698,764, and 5,550,316). Such animal model systems may allow for the determination of

Such animal model systems may allow for the determination of toxicity and tumor reduction effectiveness of the compounds of the present invention.

A preferred compound of the present invention may comprise high specific activity for HDLP and HDAC-related proteins, good bioavailability when administered orally, activity in reducing or ceasing cell growth in tumor cell lines, and activity in reducing or ceasing tumor growth in animal models of various cancers.

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Accordingly, another aspect of this invention is a method of eradicating or managing cancer in a recipient, which may be an animal and is preferably a human. Said method comprises administering to said recipient a tumor reducing amount of a compound as defined by formula (I) above, or a physiological acceptable salt thereof.

In a further aspect of the invention, there is provided a composition comprising the compound of formula (I) and an excipient or carrier. Administration of the foregoing agents may be local or systemic. Such carriers include any

- 52 -

suitable physiological solutions or dispersant or the like. The physiologic solutions include any acceptable solution or dispersion media, such as saline, or buffered saline. The carrier may also include antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like. Except insofar as any conventional media, carrier or agent is incompatible with the active ingredient, its use in the compositions is contemplated.

10 Routes of administration for the compositions containing the delivery vehicle constructs of the present invention include any conventional and physiologically acceptable routes, such as, for example, oral, pulmonary, parenteral (intramuscular, intraperitoneal, intravenous (IV) or subcutaneous 15 injection), inhalation (via a fine powder formulation or a fine mist), transdermal, nasal, vaginal, rectal, or sublingual routes of administration and can be formulated in dosage forms appropriate for each route of administration.

The following examples are provided to more clearly illustrate the aspects of the invention and are not intended to limit the scope of the invention.

EXAMPLES

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25 Example 1: Protein Production and Purification:

Full-length wild-type HDLP (Genbank accession number AE000719) was subcloned from an Aquifex aeolicus chromosomal DNA preparation (provided by Robert Huber of Universitaet of Regensburg, Germany) into the pGEX4T3 (Amersham-Pharmacia, Piscataway, NJ) vector using the polymerase chain reaction (PCR). The cysteine-to-serine and active site mutants were constructed by PCR site directed mutagenesis and were

sequenced. The HDLP-glutathione S-transferase (GST) fusion protein was produced in Escherichia coli, purified by affinity chromatography using a column ofglutathione-sepharose resin (Amersham-Pharmacia, Piscataway, NJ), and by anion-exchange chromatography (Q-sepharose $^{\text{IM}}$; Amersham-Pharmacia, Piscataway, NJ). HDLP was cleaved from the fusion protein with thrombin at 4° C, was purified by anion-exchange (Q-sepharose™; Amersham-Pharmacia, Piscataway, NJ) and gel filtration chromatography (Superdex[™]200; Amersham-Pharmacia, Piscataway, NJ), and was concentrated to typically 25 mg/ml in a buffer of 25 mM $\,$ bis-tris propane (BTP), 500 mM NaCl, 5 mM dithiothrietiol (DTT), 2% isopropanol, pH 7.0.

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Although, it is not known what metal cofactor HDLP contains 15 in vivo, it is presumed to be zinc because of the arrangement of the ligands and the similarities in the active site to the zinc proteases. The lack of metal in the purified HDLP is presumed due, in part, to the use of DTT during purification. HDLP was reconstituted with Zn^{2+} by 20 mixing the Cys75Ser/Cys77Ser double mutant at 10 mg/ml with a 5-fold molar excess of ${\rm ZnCl_2}$ in a buffer of 25 mM bis-tris propane, 200 mM NaCl, 1% isopropanol, pH 7.0. Unbound ZnCl² was removed by fractionating HDLP through a G25 desalting 25 column (Amersham-Pharmacia, Piscataway, NJ). $\mbox{HDLP-Zn}^{2+}\mbox{-TSA}$ complex was prepared by incubating the \mbox{Zn}^{2+} reconstituted HDLP mutant with 1 mM TSA for 45 minutes, followed by gel filtration chromatography (Superdex™200; Amersham-Pharmacia, Piscataway, NJ) to remove excess TSA, and concentration to typically 25 mg/ml in a buffer of 25 mM $\,$ 30 bis-tris propane, 500 mM NaCl, 1% isopropanol, pH 7.0.

PCT/US00/24700

FLAG epitope tagged human HDAC1 was overexpressed using a baculovirus expression system in Hi5 (Invitrogen, Carlsbad, CA) insect cells grown in suspension in serum-free media (Sf900, Gibco, Grand Island, NY). The fusion protein was purified by anion exchange and affinity chromatography using Anti-FLAG M2 affinity resin (Sigma, St. Louis, MO) and FLAG Peptide (Sigma,, St. Louis, MO).

Example 2: Crystallization and data collection:

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10 Crystals of apo-HDLP were grown at room temperature by the hanging-drop vapor-diffusion method, from 7.5% isopropanol, 28% PEG 1500, 425 mM NaCl, 100 mM Tris-Cl, pH 7.0. They form in space group C2 with a = 51.4 Å, b = 93.8 Å, c = 78.7 Å, β = 96.9 Å, and contain one HDLP molecule in the asymmetric unit. Diffraction data were collected with crystals flash-frozen in a buffer of 7.5% isopropanol, 35% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, at -170° C.

The structure of the HDLP- Zn²⁺ complex was determined from HDLP Cys75Ser/Cys77Ser double mutant crystals grown from 23% tert-butanol, 27% PEG 1500, 400 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8. Space group and cell dimensions were identical to the apocrystals. The HDLP-Zn²⁺ crystals were harvested and frozen in 27% tert-butanol, 22% PEG 1500, 50 mM KCl, 20 mM NaCl, 0.2 mM ZnCl₂, 100 mM bis-tris propane, pH 6.8, at -170° C.

Crystals of the HDLP-Zn²⁺-TSA complex comprised HDLP Cys75Ser/Cys77Ser double mutant and were grown from 23% tert-butanol, 27% PEG 1500, 600 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8, by microseeding. The crystals were grown in the presence of zinc. They form in space group

- 55 -

P2₁2₁2₁ with a = 53.4 Å, b = 94.4 Å, c = 156.3 Å and contain two HDLP- Zn^{2+} -TSA complexes in the asymmetric unit. The HDLP- Zn^{2+} -TSA crystals were harvested and frozen in the same cryobuffer as the HDLP- Zn^{2+} crystals except that 0.5mM TSA was added. Data were processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method. Ensemble. 276:307-326). MIR analysis, model building and refinement.

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The HDLP-Zn²⁺-SAHA complex crystals were grown and evaluated the same as the HDLP-Zn²⁺-TSA crystals. However, the restraints for the SAHA structure were constructed based on stereochemical parameters from TSA. Like the apo-HDLP crystals, the SAHA/HDLP co-crystals grew in space group C2.

Heavy-atom soaks were performed with the apo-HDLP crystals 15 in a buffer of 7.5% isopropanol, 30% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, supplemented with 1.0 mM thimerosal for 2h, 5 mM $KAu(CN)_2$ for 1h, and 1 mM $Pb(Me)_3OAc$ for 2h. MIR phases were calculated with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 20 1994, Acta Crystallogr. D 50:760-763) at 2.5 Å using the anomalous diffraction signal from the thimerosal derivative, and had a mean figure of merit of 0.55. The phases were improved by solvent flattening with the program DM (The CCP4 suite: Programs for computational crystallography, 1994, 25 Acta Crystallogr. D 50:760-763) , and were used to build the initial model with the program O (Jones et al., 1991, Acta Crystallogr. A 47:110-109). Successive rounds of rebuilding and simulated annealing refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D 30 54:905-921) allowed interpretation of HDLP from residues 2

- 56 -

to 373. Residues 1, 374, and 375 were not modeled and are presumed to be disordered.

The structure of the HDLP-Zn2+-TSA and HDLP-Zn2+-SAHA complex were determined by molecular replacement with the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D 50:760-763) using the apo-HDLP structure as a search model. electron density maps had strong and continuous difference density for the entire TSA molecule. However the SAHA molecule was not as well ordered in the cap group region. The structure of TSA was obtained from the Cambridge Structural Database (Refcode TRCHST) and was used to define stereochemical restraints used in the refinement with the program CNS. The restraints of SAHA were constructed based on stereochemical parameters from TSA and surrounding amino acid residues. The dimer interface in the HDLP-Zn2+-TSA and HDLP-Zn2+-SAHA crystals primarily involves Phe200 on the protein surface. The Phe200 side chain contacts Tyr91, whose side chain conformation changes on TSA binding, and part of the dimethyl amino phenyl group of TSA from the second protomer. The HDAC family does not contain a phenylalanine residue at the equivalent position.

25 Example 3: Histone deacetylase assays:

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Purified proteins were assayed by incubating 10 μg of [3H]acetyl-labeled murine erythroleukemia histone substrate and HDAC assay buffer (20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol) for 30-60 minutes at 37° C in a total volume of 30 μ l. The final concentrations of HDLP and HDAC1-FLAG were 3.6 μ M and 0.24 μ M, respectively. Assays were performed in duplicate. The reactions were stopped and the

- 57 -

released acetate was extracted and assayed as described (Hendzel et al., 1991, J.~Biol.~Chem.~266:21936-21942). [3H] acetyl-labeled murine erythroleukemia histones were prepared essentially as described (Carmen et al., 1996, J.~Biol.~Chem.~271:15837-15844). Inhibitors were added in the absence of substrate and incubated on ice for 20 minutes, substrate was added, and the assay performed as described above. HDLP was inclubated with 20 μ M ZnCl₂ and 20 μ M MnCl₂(H2O)₄ in HDAC buffer and tested for activity.

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Only HDLP dialyzed against $\rm ZnCl_2$ had activity. HDAC1-FLAG was dialyzed against 20 μM $\rm ZnCl_2$ in HDAC buffer which had no effect on activity. Therefore, HDAC1-FLAG contains a metal as purified.

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The *in vivo* substrate of HDLP is not known. HDLP may have a role in acetoin utilization like the *B. subtilis* AcuC gene product, and it has been annotated as such in the genome sequence, but the reaction catalyzed by AcuC is also not known. Furthermore, the *A. aeolicus* genome appears to lack the acuA and acuB genes that are part of the acuABC operon of B. subtilis (Deckert et al., 1998 Nature 392:353-358), and HDLP is as similar to human HDAC1 (35.2 % identity) as it is to B. subtilis AcuC (34.7 % identity).

- 58 -

What is claimed is:

- 1. A crystal of an enzyme comprising deacetylase activity wherein said crystal effectively diffracts X-rays for the determination of the atomic coordinates of said enzyme to a resolution of greater than 4 Å and wherein the structure of said enzyme comprises a conserved core α/β structure characteristic fold wherein said conserved α/β fold comprises an eight-stranded parallel β sheet and eight α helices and wherein four of the helices pack on either face of said parallel β sheet and wherein said structure of said enzyme comprises an rmsd of less than or equal to 1.5 Å in the positions of C α atoms for at least 2/3 or more of the amino acids of HDLP as defined by the atomic coordinates of HDLP.
 - 2. The crystal of claim 1, wherein said protein structure further comprises:
 - (a) eight α helices positioned near one side of the β sheet; and
 - (b) at least seven large, well defined loops originating from the C-terminal ends of the β -strands of said eight-stranded parallel β sheet wherein the eight extra helices and the seven large loops are associated with a significant extension of the structure beyond the core α/β motif and wherein said extension of the structure gives rise to a deep, narrow pocket and an internal cavity adjacent to the pocket.

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3. The crystal of claim 1, wherein said enzyme comprising deacetylase activity is selected from the group

- 59 -

consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, AcuC, and functional derivatives thereof.

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- 4. The crystal of claim 2 further comprising a specifically bound zinc atom in the active site of said enzyme.
- 5. The crystal of claim 2 further comprising a specifically bound deacetylase inhibitor compound in the active site of said enzyme.
- 6. The crystal of claim 2 define by the atomic coordinates according to Figure 16.
 - 7. A method for identifying a potential deacetylase inhibitor compound for an enzyme which comprises deacetylase activity, said method comprising the steps of:
 - a. using a three-dimensional structure of HDLP as defined by atomic coordinates according to Figure 16;
 - b. employing said three-dimensional structure to design or select said potential inhibitor;
 - c. synthesizing said potential inhibitor;
 - d. contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and
- e. determining the deacetylase inhibitory activity of said potential inhibitor.

- 60 -

- 8. The method of claim 7, wherein the three-dimensional structure is designed or selected using computer modeling.
- 5 9. The method of claim 7, wherein the potential deacetylase inhibitor is designed de novo.
- 10. The method of claim 7, wherein the potential deacetylase inhibitor is designed based on a known inhibitor.
- 11. The method of claim 7, wherein said enzyme comprising deacetylase activity is selected from the group consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, and AcuC.
- 12. A method of evaluating the binding properties of the potential deacetylase inhibitor compound comprising the steps of:
 - a. co-crystallizing said compound with HDLP;

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- b. determining the three-dimensional structure of said HDLP-potential inhibitor complex co-crystal by molecular replacement using the threedimensional structure of HDLP as defined by atomic coordinates according to Figure 16; and
- c. analyzing said three-dimensional structure of said HDLP bound to said potential inhibitor compound to evaluate the binding characteristics of said potential inhibitor compound.
- 13. A method for solving the structure of an HDAC family

member crystal comprising the steps of:

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- a. collecting X-ray diffraction data of said crystal wherein said data diffracts to a high resolution limit of greater than 4 Å;
- b. using the atomic coordinates of HDLP accoding to Figure 16 to perform molecular replacement or refinement and difference fourier with said X-ray diffraction data of said HDAC family member crystal to determine the structure of said HDAC family member; and
- c. refining said structure of said HDAC family member.
- 14. The method of claim 13, wherein said HDAC family memberis HDAC1.
 - 15. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant is encoded by the nucleic acid sequence of SEQ ID NO:4.
 - 16. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant has the amino acid sequence of SEQ ID NO:3.
 - 17. A nucleotide sequence according to SEQ ID NO:4
 - 18. An expression vector comprising the nucleotide sequence of claim 17.
- 19. A method of using the crystal of claim 1 for screening30 for a novel drug comprising:
 - a. selecting a potential ligand by performing

- 62 -

rational drug design with the three-dimensional structure determined for the crystal;

contacting the potential ligand with the ligand
 binding domain of the crystal; and

c. detecting the binding potential of the potential ligand for the ligand binding domain, wherein the novel drug is selected based on its having a greater affinity for the ligand binding domain than that of a known drug.

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Statistics from the crystallographic analysis

TABLE 1.

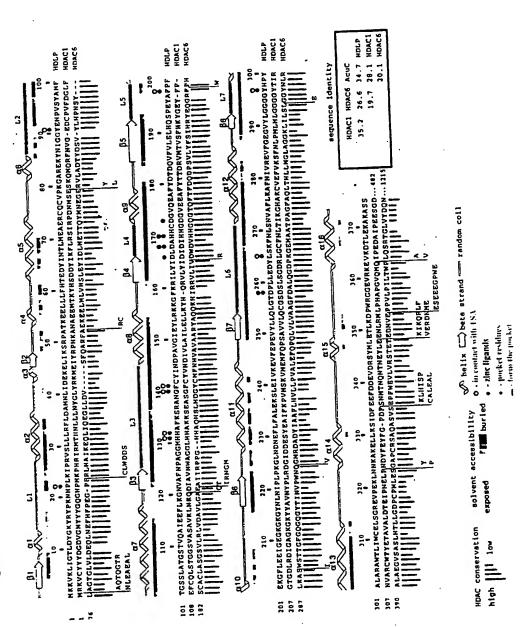
1/263

B-factor 3.83 3.55 1.04 (A^2) 180,427 50,796 93.8 7.1 RMSD angles 1.48 .63 ponds 0.010 0.009 0.008 € R-free 25.8 24.0 25.8 8 1.10 R-factor 19.8 22.0 22.4 C2 3.5 11,454 4,040 86.4 9.6 1.24 0.78 Water atoms 228 456 434 Native thimerosal 9,023 15,958 0.92 atoms Total 3214 3424 6475 C2 1.8 134,952 32,143 92.3 Resolution Reflections 31,550 (IFI > 1a) 23,582 44,122 MIR analysis (20.0-2.5 Å): Refinement statistics: € 2.0 Jnique reflections Data coverage (%) HDLP-Zn-TSA 2.1 phasing power Space Group Resolution (A) Observations Rcullis (ano) HDLP-Zn Rsym (%) Data set Data HDLP Set

Rcullis is the mean residual lack of closure error divided by the dispersive difference. R-factor = $\Sigma |F_{obs}$ Asym = $\Sigma_h \Sigma_i$ Ih,i-<h/>/ $\Sigma_h \Sigma_i$ Ih,i for the intensity (I) of i observations of reflection h. Phasing power = <F $_{\lambda i}$ >/E, where <FxI>is the root-mean-square heavy atom structure factor and E is the residual lack of closure error. F_{calc}l/ΣlF_{obs}l, where F_{obs} and F_{calc} are the observed and calculated structure factors, respectively. Figure of merit = IF(hkl)best[/F(hkl). R-free = R-factor calculated using 5% of the reflection data chosen randomly and omitted from the start of refinement. RMSD: root mean square deviations from ideal geometry and root nean square variation in the B-factor of bonded atoms.

Figure 1

2/263



1gure 2

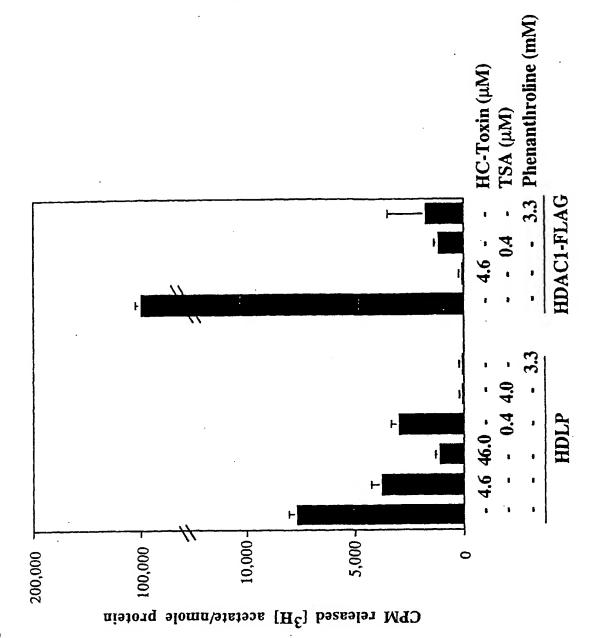
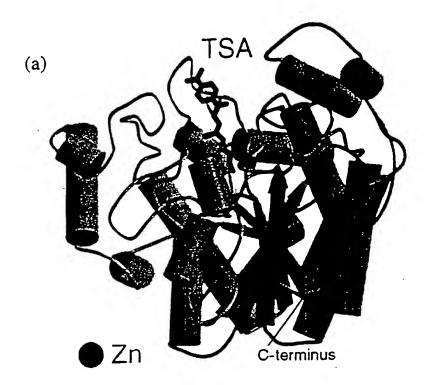


Figure 3

4/263



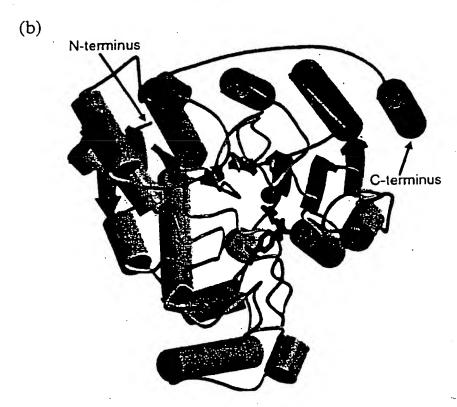


Figure 4

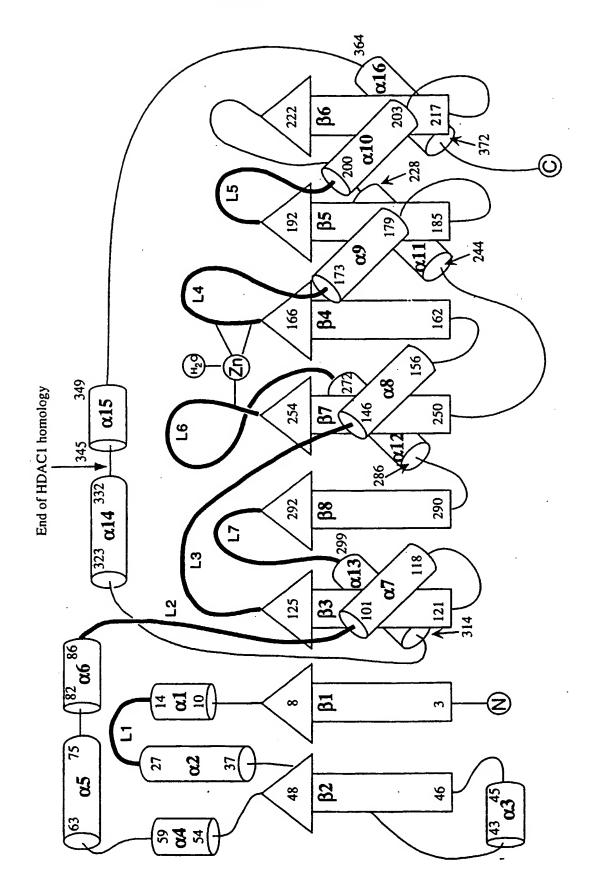


Figure 4c

6/263

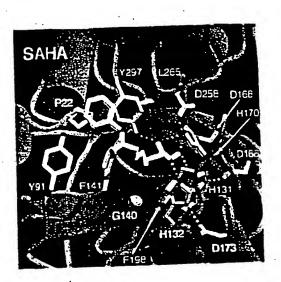
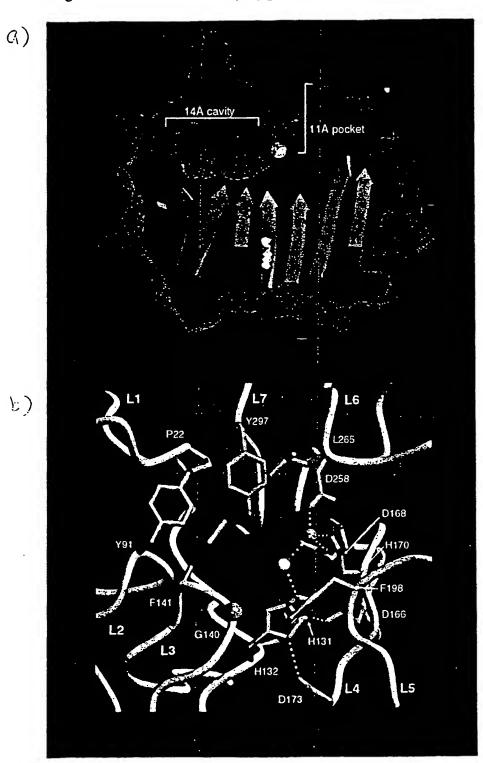


Figure 4D

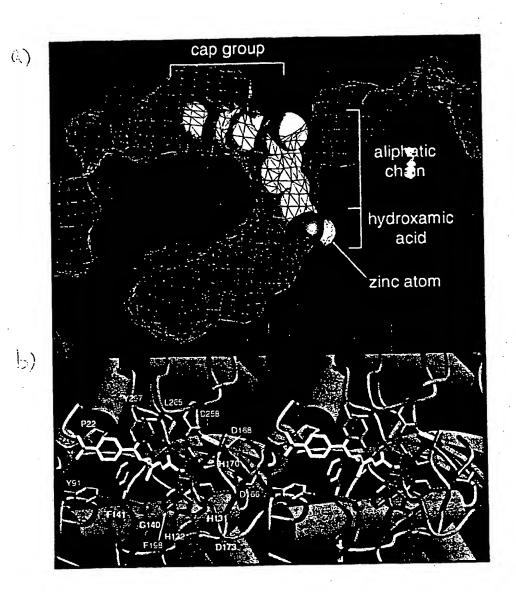
Figure 5

7/263



8/263

Figure 6



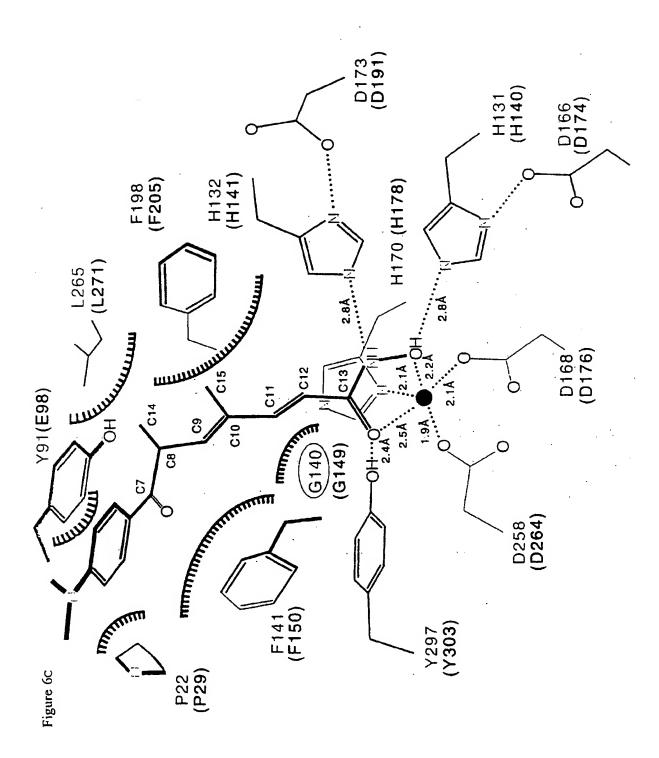
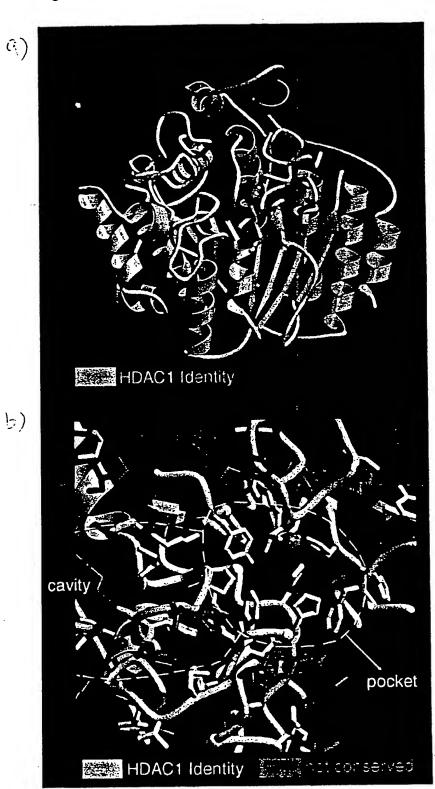
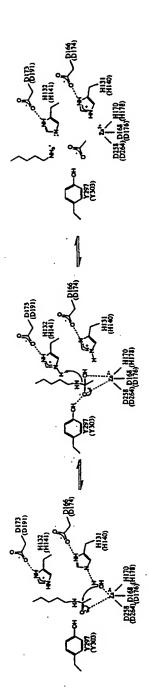


Figure 7





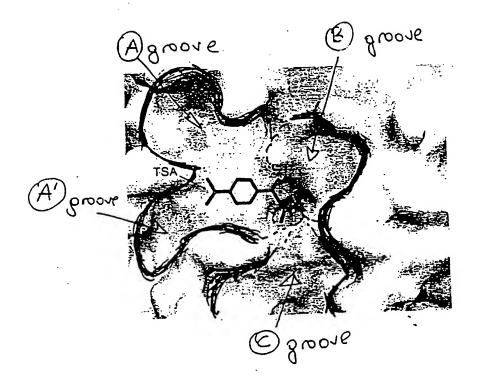


Figure 9

	10	20	30	40
حيليين	حبلينيلن	سلسبلن	سلسلب	4
ATGAAGA	AGGITAAACT:	TATCGGAACT	TAGACTACGC	AA 40
AGTACAG	ATATCCCAAA	AACCATCCTC	TTAAAATACCA	AG 80
AGTTTCC	CTACTCCTTAC	GTTTTTAGA'	IGCCATGAACC	TT 120
ATAGATG	AGAAGGAATT	AATCAAGAGC	AGACCCGCAAC	TA 160
AAGAAGA	ACTCCTTTTA!	ITCCACACGG	AAGACTACATA	AA 200
	210	220	230	240
سلست	سلسسلت	u Luulu	سلسسلس	4
CACTITA	ATGGAAGCGG	AAAGGIGICA	GIGCGITCCGA	AG 240
GGAGCTA	33GAAAAGTA	CAACATAGGO	GATACGAAAA	ACC 280
CCGTATC	TTACGCGATG	MTACAGGCIV	CITCTCTCGC	AAC 320
GGGTTCA	ACAGTGCAGG	GATAGAGGA	DAAATTTTTA	3GA 360
AATGTAG	CTTICAATCC	CGCGGGAGGT	ATGCACCACGC	TT 400
	410	420	430	440
سلسد	سلسسلب	سلسسلب	u Lacertae	டிட்
TTAAAAG	CAGGGCAAAC	ECTITICET.	ACATAAACGAC	CCC 440
CCCTGTC	GAATIGAGT?	ACTIGAGAAA	AAAAGGCTTTA	AAG 480
AGAATAC	ICTACATAGA	CTTGATGCO	CACCACTGCGA	ACG 520
GIGITCA	GGAAGCCTTT.	TACGATACAG	ACCAGGIGTIC	OGT 560
CCTGTCC	CITCACCAGI	CCCCGAGTA	CCCLLLCCCI	TT 600
	610	620	630	640
			سلسلت	
GAGAAGG	GCTTCCTGGA(GAGATAGGA	GAAGGAAAAGC	SAA 640
AGGGCTA	CAACCIGAAC	ATTCCCCTGO	CAAAGGGCTIC	3AA 680
CGACAAC	GAGITICCICT.	MGCCCTAGA	AAAATCTCTGC	SAA 720
ATAGTCA	AAGAAGTATT.	IGAGCCCGAG	GITTACCITC	MC 760
AACTCGG	AACTGACCCA	CICCITGAAG	ATTACCTTICC	2AA 800
	810	820	830	840
عبلبيي	سلسسلت	سلسسلب	سلسسلب	سل
GTTCAAO	CICICAAACG	PIGCCITTIT	AAAAGCTTTC	AAC 840
ATCGTTC	GIGAGGITITY	CGGGGAGGGA	GTATACCTCG	GAG 880
GAGGCGG	ATACCATCCT:	TACGCCCTCG	CAAGGGCATG	GAC 920
CCTAATC	TOGTGCGAGC	ITTCGGGAAG	GGAAGTGCCG	GAA 960
AAGCTAA	ACAATAAAGC	AAAAGAGCTT	TTAAAGAGTA	TAG 1000
	1010	1020	1030	1040
حبليب	سلسسلب	بالسبلب	بيلينيطين	سل
ACTTTGA	AGAGTTTGAC	GACGAGGIGG	ACCGCTCGTAG	CAT 1040
GCTCGAA	ACCCTIAAAGGI	ACCCCTGGAG	AGGAGGAGAG	TA 1080
AGGAAAG	AAGTAAAGGA'	TACGCTTGAA	AAGGCGAAAG	CT 1120
CATÇITA	1127			

	10	20	30	40	
سلست	لتتتبلين	سيطسب	سيلسي	لستيا	
WKKVKL	GTLDYGKY	RYPKNHPLK	IPRVSLLLRE	LDAMNL	4 0
IDEKELI	KSRPATKE	ELLLFHTED	YINTLMEAEF	RCQCVPK	80
GAREKYN	VIGGYENPV	SYAMFTGSS	LATGSTVQAI	EEFLKG	120
NVAFNPA	AGGMHHAFK	SRANGFCYI	NOPAVGIEYI	RKKGFK	160
RILYIDI	DAHHCDGV	QEAFYDIDQ	VFVLSLHQSE	PEYAFPF	200
	•				
	210	220	230	240)
سلس		220 	300)
	لېنىلىد		سيلسل	لسب	
EKGFLEE	TGEGKGKG	uuluu	GLNDNEFLFA	ALEKSLE	240
EKGFLEE IVKEVFE	TGEGKGKG PEVYLLQI	YNLNIPLPK	GLNDNEFLFA LSKFNLSNVA	LLLLL ALEKSLE AFLKAFN	240 280
EKGFLEE IVKEVFE IVREVFG	TGEGKGKG PEVYLLQI BGVYLGGG	GIDPLLEDY	GLNDNEFLFA LSKFNLSNVA AWPLIWCELS	LLLLL ALEKSLE AFLKAFN GREVPE	240 280 320

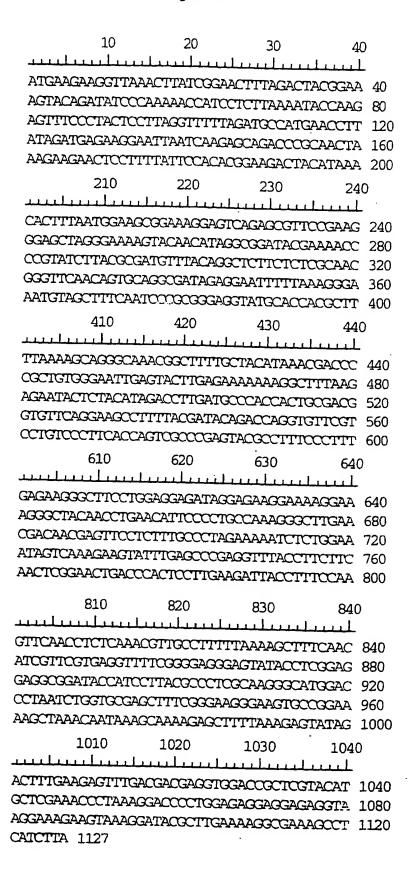
10	20	30	40
	 -	ىدىلىيىلىك سىلىيىلى	40
ATGAAGAAGGITA			ACGGAA 40
AGTACAGATATCC			
AGITICCCIACIC			
ATAGATGAGAAGG			
AAGAAGAACTCCT			
210	220	230	240
	ىيىلىيىلى		
CACTITAATGGAA	GCGGAAAGGTG	TCAGIGCGIT	CCGAAG 240
GGAGCTAGGGAAA			
CCGTATCTTACGC	GATGTTTACAG	GCTCTTCTCT	CGCAAC 320
GGGTTCAACAGTG	CAGGCGATAGA	GGAATTTTTA	AAGGGA 360
AATGTAGCTTTCA	ATCCCGCGGGA	GGTATGCACC	ACCCTT 400
410	420	430	440
سياسياسي	سيلسب	Lullun	لبييا
TTAAAAGCAGGGC	AAACGGCTTTT	GCTACATAAA	CGACCC 440
CGCTGTGGGAATT	GAGTACTTGAG	AAAAAAAGGC	TTTAAG 480
AGAATACICTACA'	TAGACCTTGAT	3CCCACCACTY	3CGACG 520
GIGITCAGGAAGC	CTTTTACGATA	CAGACCAGGI	Fricgr 560
CCTGTCCCTTCAC	CAGICGCCCGAC	STACGCCTTT	CCTTT 600
610	620	630	640
	سسلسب	Liuliu	بسبل .
GAGAAGGCTTCCT	TGGAGGAGATA(3GAGAAGGAA	AAGGAA 640
		rgccaaaggg	
CGACAACGAGTTCC			
ATAGICAAAGAAGI			
AACTCGGAACTGAC	CCACICCIIGA	VAGATTACCT	TICCAA 800
810	820	830	840
سياسياسي	لسيلسيا	استاست	
GITCAACCTCTCAA	ACGITGCCTTT	TAAAAGCTT	ICAAC 840
ATCGTTCGTGAGGTT			
GAGGCGGATTCCATC	CTTACGCCCTC	GCAAGGGCA!	NGGAC 920
CCTAATCTGGTGCGA			
AAGCTAAACAATAAA	GCAAAAGAGCT	TTTAAAGAG	TATAG 1000
1010	1020	1030	1040
استلسلسل	milimi		
ACTTIGAAGAGTTIG	ACGACGAGGIC	GACCGCTCGT	ACAT 1040
GCTCGAAACCCTAAA			
AGGAAAGAAGTAAAQ	GATACGCTTGA	AAAGGCGAAA	GCCT 1120
CATCITA 1127			

WO 01/18045 PCT/US00/24700

16/263

	10	20	30	40	
سلسب	بيلتنيلي	سيبلي	Lull	للسبل	
MKKVKLI	GTLDYGKYRY	PKNHPLK	IPRVSLLLE	RFLDAMNL	40
IDEKELI	KSRPATKEEL	LLFHTED	YINTLMEA	ERCQCVPK	80
GAREKYN	IGGYENPVSY	AMFTGSS	LATGSTVQ	ATEEFLKG	120
NVAFNPA	GGMHHAFKSF	RANGFCYI	NDPAVGIE:	ZLRKKGFK	160
RILYIDL	DAHHCDGVQE	AFYDID	VFVLSLHQ	SPEYAFPF	200
	210	220	230	240)
سلسب	سلسبيلي	تتثلث	عبليينا	لسنبلب	
EKGFLEE	IGEGKGKGYN	IINIPLPK	GLNDNEFL	FALEKSLE	240
IVKEVFE	PEVYLLQLG	DPLLEDY	LSKFNLSN	VAFLKAFN	280
IVREVFG	EGVYLGGGGI	HPYALAF	RAWILIWCE	LSGREVPE	320
KLNNKAK	ELLKSIDFE	FDDEVDF	SYMLETLK	DPWRGGEV	360
חרש יבשם	TEKAKASS 3	375			

17/263 Figure 14



	10	20	30	40	,
سلسد	uluul	سيبلين	سلسب	ليبيل	
MKKVKLI	GILDYGKYR	YPKNHPLE	IPRVSLLLRI	TLDAMNI.	40
IDEKELI	KSRPATKEE	LLLFHTEL	YINTLMEAE	RSOSVPK	80
GAREKYN	IGGYENPVS	YAMFTGSS	LATGSTVQAI	LEEFLKG	120
NVAFNPA	GGMHHAFKS	RANGFCYI	NDPAVGIEYI	RKKGFK	160
RILYIDL	DAHHCDGVQI	EAFYDID	VFVLSLHQSE	PEYAFPF	200
	210		230	240	
سلسد			Luuluu	ابريا	,
EKGFLEE	IGEGKGKGYI	VLNI PLPK	GLNDNEFLFA	T.FKCT.F	240
IVKEVFE	PEVYLLOLG	IDPLLEDY	LSKFNLSNVA	FIKAFN	280
IVREVFGE	EVYLEGGG!	/HPYALAR	AWILIWCELS	GREVER	320
KLNNKAKE	LLKSIDFER	FDDEVDR	SYMLETLKDP	WRAGEN	360
	EKAKASS 3			····	500

WO 01/18045 PCT/US00/24700

19/263

			Residue	# X				
ATOM		CE ALA	2	45.336	Y 35.880	Z TE.042	OCC. B	Segment ID
ATOM	2	C ALA	2	46.413		73.528	1.10 59.90	AAAA
ATOM	3		2	45.780		74.052	1.00 53.57	àààà
MOTA	4		2	47.540	37.826	75.673	1.00 58.82	AAAA
ATOM	5		2	46.568	37.432	74.527	1.00 57.32	AAAA
ATCM	6		3	46.390	38.570	72.389	1.00 39:61	AAAA
ATOM	7	CA LYS	3	46.587	39.669	-1.440	1.30 29.58	àààà
ATOM	8		3	47.855	39.763	73.459	1.00 36.03	aaaa aaaa
ATCM	9	CG LYS	. 3	49.217	40.007	71.102		AAAA
ATOM	10		3	50.315	40.000	73.039	1.00 66.28	AAAA
ATOM	11	CE LYS	3	51,700	40.163	70.655	1.00 65.28 1.00 73.41 1.00 69.64	กำกำกำ
atom	12	NZ LYS	3	52.791	40.047	69.642	1.10 69.64	AAAA
ATOM	13	C LYS	3	45.407	39.422	70.642	1.00 23.29	٨٨٨٨
ATOM	14	O LYS	3	44.954	38.282	~).487		AAAA
ATOM	15	N TAL	4	44.814	40.498	70.138	1.30 15.18	ል ሕልሕ
atom atom	16 17	CA VAL CE VAL	4	43.535	40.418	69.349	* · • · · · · · · · · · · · · · · · · ·	አጹጹ
ATOM	18	CB VAL CG1 VAL	1 4	42.501	41.365		1.00 31.46	شككش
ATOM	19	CG2 VAL	1	41.214 42.244	41.202	59.066	1.00 06.85	~~~
ATOM	20	C VAL	4	43.283	40.851	71.348 67.951	1.00 34,98	AAAA.
ATCM	21	O WAL	4	44.557	41.927	67.778	1.30 15.33 1.30 11.19	AAAA
ATOM	22	N LYS	5	43.654	40.023	66.978	1.00 01.19	AAAA
ATOM	23	CA LYS	5	44.052	40.291	65.607	1.10 10.10	AAAA AAAA
ATOM	24	CE LYS	5	45.347	39.214	45.177	1.00 03.35	AAAA
ATOM	25	CG LYS		46.331	39.092	£5.049	1.00 03.75	AAAA
ATOM	26	CD LYS	5 5 5	47.183	40.334	65.919	1.00 23.75	AAAA
MOTA	27	CE LYS	È	48.510	40.151	\$5.669	1.10 24.34	AAAA
atom atom	28 29	NZ LYS C LYS	5	49.351	41.387	66.585	1.10 12.04	AAAA
ATOM	30	0 LYS	5	42.914 41.949	40.294	54.596	1.00 00.27	nnn.
ATOM	31	N LEU	6	43.071	39.535 41.111	64.728	1.00 18.48	AAAA
ATOM	32	CA LEU	6	42.097	41.156	63.564 62.483	1.00 19.28	AAAA
ATOM	33	CB LEU	6	41.571	42.574	52.291	1.30 23.51	AAAA
ATOM	34	CG LEU	6	40.373	42.712	51.342	1.30 30.59	алаа Алаа
ATOM	3 5	CD1 LEU	6	40.079	44.192	51.153	1.00 19.90	ሕሕሕሕ AAAA
ATOM	36	CD3 LEU	5	40.557	42.085	59.995		AAA.
ATOM	37	C LEU	6	42.964	40.701	51.237	1.00 18.17	AAAA
ATOM ATOM	38 39	D LEU N TLE	ó T	43.911	41.249	60.919		AAAA
ATOM	10	CA ILE	;	42.359 43.045	39.689	50.538	1.00 19.15	 ሕሕሕሕ
ATOM	41	CE ELE	7	42.922	39.199 37.674	59.338 39.191	1.00 18.38	AAAA
ATOM	42	IGC ILE	-	43.930	37.162	53.144	1.30 19.05 1.30 16.45	ànna
ATOM	÷ 3	SSI SLE	-	43.283	37.007	50.521	1.00 10.01	aaaa aaaa
ATOM	14	CD1 ILE	-	43.296	35.543	50.450	1.00 02.81	AAAA
ATOM	45	I ILE	7	42.396	39.850	58.125	1.30 1T.95	AAAA
ATCM	46	: LE	?	41.138	39.729	57.928	1.30 19.07	nana
ATOM	47	:: GLY	9	43.193	₹0.552	57.330	1.00 17.70	AAAA
ATOM ATOM	49	· CA JLY	9	42.523			1.30 18.11	ನನಿಸಿನ
ATOM	50	C GLY	3 3	43.540	41.957	55.243	1.00 20.91	anna.
ATOM	51	H THR	ò	44.849 43.134	41.840 42.428	55.504	1.00 13.27	AAAA
ATOM	52	CA THR	á	43.250		54.155 53.183	1.30 13.99	جممح
ATOM	53	CE THR	ý	44.739		52.263	1.30 15.30	ääää
ATOM	54	SGI THR	و	45.321	42.962	51.199	1.30 25.56	AAAA 2222
ATOM	55	CGC THR	9	43.823		51.557	1.30 25.24	aaaa aaaa
ATOM	56	I THR	à	43.025		52.294	1.30 19.04	AAA
ATOM	57	I THR	9	41.572	₹3.582	52.082	1.00 23.05	AAA
ATOM	56	:: LEU	10	43.517	45.079	E1.781	1.00 29.19	AAA
ATCM	59	CA LEU	20	42.690	45.396	50.895	1,30 32.55	AAA
ATCM	50	CB LEU	10	43.256		50.761	1.00 28.09	AAAJ
ATOM	61 43	OG LEV	10	43.142		51.958	1.30 33.00	aaa.
ATOM	62 63	CCC LEU	10 10	41.680		52.347	1.00 26.65	242
ATOM ATOM	64 63	C LEU	10	43.938		53.126	1.00 41.33	AAA
ATCM	65	: LEU	10	42.566 41.736	45.261 45.684	49.512 48.702	1.00 32.68	بتهم
ATOM	56	:: ASP	11	43.377		49.256	1.30 28.97	AAA.
		,				-	2.20 ~23	خكمة

MOTA	67	CA	ASP	11	43.367	43.541	47.970	1.00 35.74	AAAA
ATOM	68	CB	ASP	11	44.477	42.485	47.922	1.00 37.61	AAAA
ATOM	69	CG	ASP	11	45.858	43.093	48.079	1.00 46.75	AAAA
ATOM	70		ASP	11	46.110	44.136	47.444	1.00 46.34	AAAA
ATOM	71		ASP	11	46.690	42.528	48.821	1.00 58.94	AAAA
MOTA	72	C	ASP	11	42.034	42.898	47.507	1.00 34.26	AAAA
ATOM	73	0	ASP	11	41.748	42.696	46.420	1.00 31.12	AAAA
MOTA	74	N	TYR	12	41.220	42.558	48.609	1.00 26.19	AAAA
MOTA	75	CA	TYR	12	39.923	41.963	48.314	1.00 28.45	AAAA
MOTA	76	CB	TYR	12	39.119	41.720	49.601	1.00 29.35	AAAA
MOTA	77	CG	TYR	12	39.648	40.595	50.470	1.00 28.47	AAAA
MOTA	78		TYR	. 12	40.137	40.846	51.755	1.00 32.17	AAAA
MOTA	79	CE1		12	40.592	39.808	52.572	1.00 30.35	AAAA
MOTA	80	CD2		12	39.629	39.276	50.017	1.00 22.97 1.00 19.60	AAAA AAAA
ATOM	81	CE2	TYR TYR	12 12	40.077 40.554	38.228 38.499	50.822 52.096	1.00 19.60	AAAA
MOTA	82	CZ	TYR	12	40.964	37.456	52.907	1.00 21.42	AAAA
MOTA	83 84	· ОН	TYR	12	39.144	42.907	47.390	1.00 26.67	AAAA
ATOM ATOM	85	o	TYR	12	38.307	42.466	46.593	1.00 30.51	AAAA
ATOM	86	И	GLY	13	39.441	44.201	47.492	1.00 30.22	AAAA
ATOM	87	CA	GLY	13	38.767	45.203	46.675	1.00 25.13	AAAA
MOTA	88	C	GLY	13	38.911	45.009	45.177	1.00 27.31	AAAA
ATOM	89	0	GLY	13	38.096	45.522	44.415	1.00 29.38	AAAA
ATOM	90	N	LYS	14	39.937	44.269	44.755	1.00 33.56	AAAA
ATOM	91	CA	LYS	14	40.176	44.005	43.337	1.00 39.81	AAAA
ATOM	92	CB	LYS	14	41.680	44.026	43.031	1.00 51.10	AAAA
MOTA	93	CG	LYS	14	42.292	45.424	42.907	1.00 64.99	AAAA
MOTA	94	CD	LYS	14	41.757	46.218	41.692	1.00 72.74	AAAA
MOTA	95	CE	LYS	14	42.183	45.639	40.336	1.00 67.25	AAAA AAAA
MOTA	96	NZ	LYS	14	41.637 39.589	44.280 42.688	40.045 42.834	1.00 70.06 1.00 39.98	AAAA
ATOM	97	С	LYS	14 14	39.746	42.350	41.658	1.00 35.58	AAAA
ATOM	98 99	N O	LYS TYR	15	38.927	41.944	43.717	1.00 32.64	AAAA
MOTA	100	CA	TYR	15	38.318	40.655	43.355	1.00 41.01	AAAA
ATOM ATOM	101	CB	TYR	15	38.996	39.512	44.126	1.00 26.48	AAAA
MOTA	102	CG	TYR	15	40.496	39.571	44.033	1.00 34.97	AAAA
ATOM	103	CD1		15	41.289	39.401	45.167	1.00 43.28	AAAA
MOTA	104	CE1	TYR	15	42.677	39.548	45.106	1.00 36.05	AAAA
MOTA	105	CD2	TYR	15	41.127	39.879	42.827	1.00 40.78	AAAA
MOTA	106	CE2	TYR	15	42.508	40.027	42.756	1.00 37.13	AAAA
MOTA	107	CZ	TYR	15	43.275	39.865	43.899	1.00 36.87	AAAA
MOTA	108	OH	TYR	15	44.644	40.044	43.844	1.00 35.40 1.00 38.62	AAAA AAAA
MOTA	109	C	TYR	15	36.838 36.344	40.705 39.868	43.714	1.00 37.82	AAAA
MOTA	110	0	TYR	15 16	36.141	41.703	43.177	1.00 44.85	AAAA
MOTA	111 112	.N CA	ARG ARG	16	34.716	41.890	43.431	1.00 45.75	AAAA
ATOM	113	CB	ARG	16	34.320	43.348	43.187	1.00 54.17	AAAA
ATOM ATOM	114	CG	ARG	16	35.170	44.399	43.875	1.00 66.77	AAAA
ATOM	115	CD	ARG	16	34.920	44.506	45.369	1.00 72.39	AAAA
ATOM	116	NE	ARG	16	35.649	45.646	45.923	1.00 85.39	AAAA
ATOM	117	CZ	ARG	16	35.489	46.906	45.518	1.00 81.94	AAAA
MOTA	118	NH1	ARG	16	34.624	47.197	44.554	1.00 80.19	AAAA
ATOM	119	NH2	ARG	16	36.205	47.878	46.069	1.00 85.46	AAAA
ATOM	120	С	ARG	16	33.915	41.029	42.460	1.00 43.50	AAAA
MOTA	121	0	ARG	16	34.400	40.667	41.385	1.00 38.62	AAAA
ATOM	122	N	TYR	17	32.689	40.692	42.833	1.00 32.68	AAAA AAAA
ATOM	123	CA	TYR	17	31.850	39.923	41.930 42.672	1.00 37.55 1.00 41.05	AAAA
ATOM	124	CB	TYR	17 17	30.662 31.040	39.306 38.104	42.672		AAAA
MOTA	125	CG	TYR	17 17	32.039	38.104	44.493	1.00 37.31	AAAA
MOTA	126		TYR	17	32.383	37.095	45.277	1.00 32.33	AAAA
ATOM	127 128	CE1		17	30.393	36.875	43.346	1.00 31.46	AAAA
ATOM	129	CE2		17	30.726	35.772	44.122	1.00 28.64	AAAA
ATOM ATOM	130	CZ	TYR	17	31.721	35.887	45.088	1.00 27.14	AAAA
ATOM	131	ОН	TYR	17	32.044	34.807	45.881	1.00 21.73	AAAA
ATOM	132	c c	TYR	17	31.380	40.871	40.836	1.00 40.97	AAAA

21/263 Figure 16-3

ATCM	133	0	TYR	17	31.435	42.097	40.984	1.00 29.58	AAAA
ATCM	134	N	Q.q.q	18	30.904	40.321	39.722	1.00 41.02	AAAA
ATCM	135	CD	PRO	18	30.760	38.910	39.318	1.00 48.67	AAAA
					-				
MOTA	136	CA	PRO	18	30.459	41.197	38.649	1.00 49.35	AAAA
ATOM	137	CB	PRO	18	30.321	40.228	37.481	1.00 59.04	AAAA
ATOM	138	CG	PRO	18	29.756	39:017	38.179	1.00 54.15	AAAA
ATOM	139	С	PRO	18	29.178	41.982	38.864	1.00 54.97	AAAA
			-						
ATOM	140	0	PRO	18	28.457	41.823	39.850	1.00 46.85	AAAA
		N	LYS	19	28.961	42.868	37.904	1.00 60.87	AAAA
MOTA	141								
ATCM	142	CA	LYS	19	27.777	43.696	37.749	1.00 67.78	AAAA
	143	CB	LYS	19 -	27.155	43.278	36.425	1.00 73.26	AAAA
ATOM							_		
ATOM	144	CG	LYS	19	26.971	41.752	36.414	1.00 77.87	AAAA
	145	CD	LYS	19	26.276	41.166	35.209	1.00 81.01	AAAA
ATOM									
MOTA	146	CE	LYS	19	26.039	39.680	35.471	1.00 82.45	AAAA
ATCM	147	NZ	LYS	19	25.417	38.959	34.331	1.00 83.11	AAAA
MOTA	148	С	LYS	19	26.688	43.594	38.814-	1.00 64.15	AAAA
MOTA	149	0	LYS	19	26.810	44.047	39.949	1.00 65.73	AAAA
		-							
ATOM	150	N	ASN	20	25.604	42.986	38.345	1.00 59.78	AAAA
ATCM	151	CA	ASN	20	24.353	42.703	39.025	1.00 59.91	AAAA
ATOM	152	CB	ASN	20	23.516	41.844	38.077	1.00 68.08	AAAA
ATOM	153	CG	ASN	20	22.108	42.355	37.907	1.00 78.73	AAAA
								1.00 78.67	
MOTA	154	ODI	ASN	20	21.894	43.498	37.496		AAAA
MOTA	155	ND2	ASN	20	21.132	41.505	38.211	1.00 83.22	AAAA
								1.00 53.35	
ATOM	156	С	ASN	20	24.474	41.977	40.361		AAAA
ATCM	157	0	ASN	20	23.611	42.112	41.234	1.00 59.92	AAAA
ATOM	158	N	HIS	21	25.543	41.206	40.511	1.00 44.23	AAAA
ATOM	159	CA	HIS	21	25.768	40.397	41.707	1.00 28.15	AAAA
ATOM	160	CB	HIS	21	27.088	39.639	41.570	1.00 31.84	. AAAA
MCTA	161	CG	HIS	21	27.155	38.411	42.418	1.00 34.79	AAAA
							43.752	1.00 25.03	AAAA
ATOM T	162	CDZ	HIS	21	27.344	38.259			
ATOM	163	ND1	HIS	21	26.929	37.148	41.917	1.00 34.81	AAAA
				21	26.979	36.269	42.900	1.00 17.01	AAAA
ATOM	164		HIS						
ATOM	165	NE2	HIS	21	27.228	36.917	44.026	1.00 32.31	AAAA
	166	С	HIS	21	25.763	41.135	43.051	1.00 29.37	AAAA
ATOM									
ATOM	167	0	HIS	.21	26.346	42.210	43.186	1.00 28.54	AAAA
ATOM	168	N	PRO	22	25.093	40.565	44.066	1.00 29.14	AAAA
ATOM	169	CD	PRO	22	24.301	39.322	44.061	1.00 31.20	AAAA
ATOM	170	CA	PRO	22	25.034	41.185	45.395	1.00 32.84	AAAA
									AAAA
MOTA	171	CB	PRO	22	24.174	40.192	46.187	1.00 34.98	
ATOM	172	CG	PRO	22	23.257	39.634	45.109	1.00 30.11	AAAA
								1.00 34.37	AAAA
ATOM	173	С	PRO	2 2	26.411	41.415	46.044		
ATOM	174	0	PRO	22	26.554	42.272	46.916	1.00 29.17	AAAA
				23	27.415	40.644	45.629	1.00 29.22	AAAA
ATOM	175	N	LEU						
ATOM	176	CA	LEU	23	28.765	40.781	46.181	1.00 26.49	AAAA
	177		LEU	23	29.414	39.397	46.332	1.00 22.30	AAAA
ATOM		CB							
ATOM	178	CG	LEU	23	28.703	38.527	47.380	1.00 21.04	AAAA
ATOM	179	CD1	LEU	23	29.307	37.113	47.410	1.00 19.35	AAAA
ATOM	180	CD2	LEU	23	28.850	39.197	48.746	1.00 26.51	AAAA
MCTA	181	С	LEU	23	29.661	41.718	45.361	1.00 25.81	AAAA
									AAAA
ATOM	182	C	LEU	23	30.893	41.693	45.477	1.00 28.45	
ATOM	183	N	LYS	24	29.018	42.539	44.532	1.00 24.86	AAAA
								1.00 27.35	AAAA
ATOM	184	CA	LYS	24	29.696	43.552	43.723		
ATOM	185	CB	LYS	24	28.662	44.244	42.830	1.00 28.57	AAAA
							42.171	1.00 52.95	AAAA
ATOM	186	CG	LYS	24	29.118				
ATOM	187	CD	LYS	24	28.025	46.603	42.283	1.00 63.74	AAAA
							41.706	1.00 66.09	AAAA
ATOM	188	CE	LYS	24	26.688	46.138			
ATOM	189	NZ	LYS	24	25.595	47.137	41.896	1.00 66.00	AAAA
					30.332	44.592	44.676	1.00 29.52	AAAA
ATOM	190	C	LYS	24					
ATOM	191	0	LYS	24	31.412	45.123	44.420	1.00 30.67	AAAA
					29.652	44.879	45.779	1.00 26.90	AAAA
ATOM	192	N	ILE	25					
ATOM	193	CA	ILE	25	30.151	45.865	46.738	1.00 25.02	AAAA
					29.105	46.177	47.824	1.00 28.34	AAAA
ATOM	194	CB	ILE	25					
ATOM	195	CG2	ILE	25	27.961	46.951	47.237	1.00 23.84	AAAA
				25	28.661	44.869	48.495	1.00 30.31	AAAA
ATOM	196		ILE						
ATOM	197	CD1	ILE	25	27.718	45.051	49.660	1.00 44.90	AAAA
	198	c	ILE	25	31.424	45.463	47.483	1.00 32.19	AAAA
ATOM	270	C	ىتىدد		J ~ . ~ .	43.403			
		•							•

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	100	^	T	25	21 226	44 271	47.623	1 00 26 54	
MOTA	199	0	ILE	25	31.736	44.271		1.00 26.54	aaaa
MOTA	200	N	PRO	26	32.191	46.463	47.956	1.00 30.14	ÀAAA
ATOM	201	CD	PRO	26	31.979	47.907	47.770	1.00 36.38	AAAA
ATOM	202	CA	PRO	26	33.431	46.241	48.707	1.00 30.63	AAAA
						47.652	48.814	1.00 34.29	
MOTA	203	CB	PRO	26	34.014				AAAA
ATOM -	204	CG	PRO	26	33.397	48.373	47.617	1.00 43.39	AAAA
MOTA	205	C	PRO	25	32.943	45.727	50.061	1.00 25.99	AAAA
MOTA	206	ō	PRO	26	31.854	46.110	50.484	1.00 25.51	ÀAAA
MOTA	207	N	ARG	27	33.719	44.880	50.743	1.00 21.98	AAAA
MOTA	208	CA	ARG	27	33.267	44.347	52.C35	1.00 26.17	AAAA
ATOM	209	CB	ARG	27	32.641	42.969	51.834	1.00 22.70	AAAA
MOTA	210	CG	ARG	27	31.442	43.039	50.890	1.00 26.75	AAAA -
ATŌM	211	CD	ARG	27	30.832	41.672	50.581		AAAA
MOTA	212	NE	ARG	27	30.121	41.098	51.716	1.00 28.66	AAAA
ATOM	213	CZ	ARG	27	30.582	40.129	52.503	1.00 31.79	AAAA
MOTA	214	NH1	ARG	27	31.778	39.598	52.290	1.00 34.08	- AAAA
	215	NH2	ARG	27	29.833	39.688	53.505	1.00 26.16	AAAA
MOTA									
ATOM	216	C	ARG	27	34.358	44.297	53.090	1.00 24.10	AAAA
ATOM	217	0	ARG	27	34.326	45.074	54.038	1.00 23.50	AAAA
MOTA	218	N	VAL	28	35.314	43.390	52.960	1.00 21.45	AAAA
ATOM	219	CA	VAL	28	36.385	43.385	53.953	1.00 21.75	AAAA
				28	37.221		53.866	1.00 26.55	
ATOM	220	CB	VAL			42.101			AAAA
ATOM	221	CG1	VAL	28	38.407	42.177	54.830	1.00 23.84	તંતતા
MOTA	222	CG2	VAL	28	36.337	40.906	54.214	1.00 19.20	AAAA
ATOM	223	С	VAL	28	37.277	44.611	53.736	1.00 20.86	AAAA
	224	ō	VAL	28	37.770	45.223	54.702	1.00 25.15	AAAA
ATOM									
atom	225	N	SER	29	37.480	44.996	52.475	1.00 19.22	AAAA
ATOM	226	CA	SER	29	38,320	46.169	52.209	1.00 19.63	AAAA
MOTA	227	CB	SER	29	38.591	46.352	50.702	1.00 24.45	AAAA
ATOM	228	OG	SER	29	37.411	46.697	49.984	1.00 28.74	AAAA
					37.579	47.381	52.756	1.00 21.50	AAAA
MOTA	229	С	SER	29					
ATOM	230	0	SER	29	38.184	48.320	53.271	1.00 18.95	AAAA
MOTA	231	N	LEU	30	36.256	47.353	52.673	1.00 19.56	AAAA
MOTA	232	CA	LEU	30	35.499	48.481	53.177	1.00 25.97	AAAA
ATOM	233	CB	LEU	30	34.032	48.396	52.744	1.00 22.90	AAAA
			LEU	30	33.085	49.541	53.157	1.00 26.62	AAAA
MOTA	234	CG							
MOTA	235		LEU	30	32.885	49.539	54.648	1.00 38.27	AAAA
MOTA	236	CD2	LEU	30	33.653	50.885	52.698	1.00 25.71	AAAA
ATOM	237	С	LEU	30	35.604	48.509	54.696	1.00 18.44	AAAA
ATOM	. 238	Ö	LEU	30	35.704	49.580	55.273	1.00 25.05	AAAA
					35.578	47.336	55.336		AAAA
MOTA	239	N	LEU	31				1.00 19.65	
MOTA	240	CA	LEU	31	35.672	47.270	56.797	1.00 20.47	aaaa
ATOM	241	CB	LEU	31	35.613	45.821	57.300	1.00 20.60	AAAA
MOTA	242	CG	LEU	31	34.988	45.456	58.665	1.00 39.80	AAAA
	243		LEU	31	35.712	44.219	59.257	1.00 23.99	AAAA
ATOM						46.591	59.637	1.00 28.48	
MOTA	244		LEU	31	35.085				AAAA
MOTA	245	С	LEU	31	37.009	47.870	57.229	1.00 23.85	AAAA
ATOM	246	0	LEU	31	37.070	48.673	58.154	1.00 21.24	AAAA
ATOM	247	N	LEU	32	38.079	47.462	56.562	1.00 23.91	AAAA
		CA	LEU	32	39.400	47.965	56.899	1.00 24.82	AAAA
ATOM	248								
MOTA	249	CB	LEU	32	40.479	47.320	56.018	1.00 24.81	AAAA
ATOM	250	CG	LEU	32 -	40.849	45.854	56.276	1.00 27.00	AAAA
MOTA	251	CD1	LEU	32	41.995	45.435	55.354	1.00 27.13	AAAA
ATOM	. 252		LEU	32	41.285	45.687	57.720	1.00 34.49	AAAA
					39.466	49.475	56.763	1.00 19.56	AAAA
MOTA	253	C	LEU	32					
ATOM	254	0	LEU	32	39.958	50.143	57.662	1.00 20.71	AAAA
MOTA	255	N	ARG	33	38.974	50.006	55.645	1.00 23.25	AAAA
ATOM	256		ARG	33	39.007	51.449	55.441	1.00 24.33	AAAA
	257	CB	ARG	33	38.575	51.806	54.013	1.00 23.46	AAAA
MOTA									AAAA
ATOM	358	CG	ARG	33	39.571	51.327	52.945	1.00 26.94	
ATOM	259	CD	ARG	33	39.337	51.976	51.585	1.00 42.13	AAAA
ATOM	260	NE	ARG	33	38.023	51.661	51.037	1.00 59.06	AAAA
ATOM	261	CZ	ARG	33	37.583	52.088	49.857	1.00 60.87	AAAA
			ARG	33		52.850	49.095	1.00 65.33	AAAA
ATOM	362								AAAA
MOTA	263		ARG	33	36.373	51.743	49.433	1.00 56.24	
MOTA	264	С	ARG	33	38.124	52.156	56.455	1.00 30.33	AAAA

23/263 Figure 16-5

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ATOM	265	0	ARG	33	38.441	53.252	56.905	1.00 25.45	AAAA
MOTA	266		PHE	34	37.022	51.514	56.828	1.00 24.98	AAAA
ATOM	267		PHE	34	36.099	52.085	57.789	1.00 27.09	AAAA
ATOM	268	CB	PHE	34	34.798	51.276	57.807	1.00 24.88	AAAA
ATOM	269	CG	PHE	34	33.719	51.898	58.631	1.00 20.46	AAAA
MOTA	270	CD1	PHE	34	33.043	53.018	58.171	1.00 18.74	AAAA
ATOM	271	CD2	PHE	34	33.396	51.383	59.889	1.00 20.19	AAAA
MOTA	272	CE1	PHE	34	32.043	53.627	58.956	1.00 23.04	AAAA
ATOM	273	CE2	PHE	. 34	32.406	51.974	60.681	1.00 25.08	AAAA
MOTA	274	CZ	PHE	34	31.726	53.104	60.209	1.00 23.31	AAAA
MOTA	275	С	PHE	34	36.709	52.115	59.194	1.00 23.93	AAAA AAAA
MOTA	276	0	PHE	34	36.668	53.138	59.883	1.00 21.71 1.00 21.33	AAAA .
ATOM	277	N	LYS	35	37.298	51.013	59.645	1.00 21.33	AAAA
MOTA	278	CA	LYS	35	37.862	51.084	60.978	1.00 22.34	AAAA
MOTA	279	CB	LYS	35	38.276	49.716	61.476	1.00 29.48	AAAA
MOTA	280	CG	LYS	35	37.082	48.890 47.535	61.924 62.398	1.00 23.43	AAAA
MOTA	281	CD	LYS	35	37.517	46.762	61.275	1.00 34.89	AAAA
MOTA	282	CE	LYS	35	38.157 39.372	47.412	60.719	1.00 67.18	AAAA
MOTA	283	NZ	LYS	35	39.372	52.055	61.040	1.00 24.68	AAAA
MOTA	284	C	LYS	35	39.027	52.640	62.085	1.00 22.33	AAAA
MOTA	285	0	LYS	35 36	39.724	52.231	59.926	1.00 25.67	AAAA
MOTA	286	N	ASP	36	40.842	53.163	59.898	1.00 25.57	AAAA
ATOM	287	CA	ASP	36	41.669	52.984	58.621	1.00 32.26	AAAA
MOTA	288	CB CG	ASP ASP	36	42.881	53.914	58.572	1.00 33.92	AAAA
ATOM	289 290	OD1		36	43.641	53.969	59.563	1.00 40.22	AAAA
MOTA	291		ASP	36	43.078	54.575	57.538	1.00 40.06	AAAA
ATOM	292	C	ASP	36	40.285	54.578	59.973	1.00 28.04	AAAA
ATOM ATOM	293	ō	ASP	36	40.761	55.397	60.765	1.00 29.52	AAAA
ATOM	294	N	ALA	37	39.272	54.864	59.159	1.00 23.32	AAAA
ATOM	295	CA	ALA	37	38.651	56.192	59.163	1.00 28.22	AAAA
ATOM	296	CB	ALA	37	37.506	56.251	58.119	1.00 25.93	AAAA
ATOM	297	c	ALA	37	38.127	56.549	60.565	1.00 28.41	AAAA
MOTA	298	0	ALA	37	38.186	57.708	60.972	1.00 29.27	AAAA
ATOM	299	N	MET	38	37.639	55.547	61.300	1.00 24.76	AAAA
ATOM	300	CA	MET	38	37.103	55.727	62.669	1.00 25.45	AAAA AAAA
ATOM	301	CB	MET	38	36.077	54.625	62.982	1.00 25.19 1.00 22.32	AAAA
ATOM	302	CG	MET	38	34.816	54.660	62.148 62.702	1.00 22.32	AAAA
ATOM	303	SD	MET	38	33.733	55.983	64.376	1.00 26.51	AAAA
MOTA	304	CE	MET	38	33.402 38.203	55.417 55.667	63.744	1.00 26.42	AAAA
ATOM	305	C	MET	38	37.924	55.818	64.947	1.00 23.77	AAAA
MOTA	306	0	MET	38 39	39.437	55.434	63.300	1.00 26.21	AAAA
MOTA	307	N	ASN	39	40.607	55.308	64.170	1.00 28.53	AAAA
MOTA	308	CÀ	ASN ASN	39	40.926	56.643	64.855	1.00 33.95	AAAA
ATOM	309 310	CB CG	ASN	39	41.153	57.751	63.858	1.00 29.46	AAAA
ATOM	311		ASN	39	41.930	57.596	62.925	1.00 36.28	AAAA
MOTA	312		ASN	39	40.472	58.880	64.046	1.00 40.03	AAAA
ATOM ATOM	313	C	ASN	39	40.374	54.223	65.205	1.00 30.07	AAAA
ATOM	314	0	ASN	39	40.682	54.390	66.395	1.00 25.47	AAAA
MOTA	315	N	LEU	40	39.814	53.105	54.744·	1.00 28.19	AAAA
ATOM	316	CA	LEU	40	39.527	51.984	65.633	1.00 25.50	AAAA
ATOM	317	CB	LEU	40	38.060	51.562	65.514	1.00 32.14	AAAA
ATOM	318	CG	LEU	40	37.044	52.585	66.036	1.00 30.47	AAAA AAAA
ATOM	319	CD1	LEU	40	35.637	52.027	65.894	1.00 29.07	AAAA
MOTA	320	CD2	LEU	40	37.325	52.889	67.491	1.00 23.80	AAAA
ATOM	321	C	LEU	40	40.433	50.771	65.415	1.00 26.99	AAAA
MOTA	322	၁	LEU	40	40.157	49.683	65.915 64.691	1.00 25.41 1.00 28.33	AAAA
MOTA	323	51	ILE	41	41.528	50.970		1.00 25.08	AANA
ATOM	324	CA	ILE	41	42.459	49.882		1.00 25.08	AAAA
ATCM	325	CE	ILE	41	42.010	49.020		1.00 23.01	AAAA
MOTA	326		ILE	41	42.061 42.917	49.824 47.802			AAAA
MOTA	327		ILE	41	42.895	46.951		1.00 42.18	
ATCM	328		ILE	41	43.900	50.376			AAAA
ATOM	329	C	ILE	41	44.128	51.406		1.00 28.92	AAAA
ATOM	330	0	ILE	41	44.150	71.400	-		•

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ATOM	331 N	ASP	42	44.866	49.634	64.787	1.00 28.95	AAAA
ATOM	332 CA	ASP	42	46.279	49.988	64.638	1.00 32.52	AAAA
ATOM	333 CB	ASP	42	46.951	50.094	66.007	1.00 34.24	AAAA
	334 CG	ASP	42	46.267	51.097	66.911	1.00 51.23	AAAA
ATOM		ASP	42	46.079	52.250		1.00 50.19	AAAA
MOTA		ASP	42	45.924	50.736		1.00 53.00	AAAA
ATOM	-	ASP	42	46.985	48.919		1.00 31.13	AAAA
ATOM	337 C	ASP	42	46.594	47.758	63.838	1.00 26.71	AAAA
ATOM	338 0		43	48.036	49.312	63.092	1.00 29.99	AAAA
ATOM	339 N	GLU	43	48.793	48.392	62.240	1.00 31.34	AAAA
MOTA	340 CA	GLU	43	50.078	49.045	61.724	1.00 36.12	AAAA
MOTA	341 CB	GLU	43	49.886	50.118	60.676	1.00 52.72	AAAA
ATOM	342 CG	GLU	43	51.214	50.556	60.083	1.00 60.39	AAAA
MOTA	343 CD	GLU		51.928	49.688	59.536	1.00 70.32	AAAA
MOTA		GLU	43	51.550	51.755	60.163	1.00 60.38	AAAA
MOTA		GLU	43	49.196	47.070	62.859	1.00 38.04	AAAA
MOTA .	346 C	GLU	43	49.125	46.024	62.209	1.00 36.83	AAAA
MOTA	347 0	GLU	43	49.125	47.103	64.105	1.00 28.26	AAAA
ATOM	348 N	LYS	44	50.084	45.879	64.740	1.00 32.71	AAAA
MOTA	349 CA	LYS	44	50.084	46.245	65.927	1.00 44.28	AAAA
ATOM	350 CB	LYS	14	52.211	47.007	65.418	1.00 59.37	AAAA
MOTA	351 CG	LYS	44	53.187		66.491	1.00 68.87	AAAA
ATOM	352 CD	LYS	44	54.373	48.167	65.849	1.00 67.21	AAAA.
MOTA	353 CE	LYS	44			66.850	1.00 74.00	AAAA
ATOM	354 NZ	LYS	14	55.361	44.889	65.115	1.00 26.75	AAAA
MOTA	355 C	LYS	44	48.982 49.265	44.889	65.586	1.00 27.37	AAAA
MOTA	356 O	LYS	44		45.278	64.881	1.00 29.20	AAAA
ATOM	357 N	GLU	45	47.731	43.276	65.165	1.00 21.58	AAAA
ATOM	358 CA	GLU	45	46.580		65.676	1.00 18.24	AAAA
MOTA	359 CB	GLU	45	45.387	45.243	67.077	1.00 26.57	AAAA
MOTA	360 CG	GLU	45	45.551	45.828	67.453	1.00 23.12	AAAA
MOTA	361 CD	GLU	45	44.418	46.772	66.746	1.00 21.64	AAAA
ATOM		GLU	45	44.224	47.783	68.454	1.00 26.48	AAAA
ATOM	363 OE2	gLU	45	43.725	46.509	63.870	1.00 26.31	AAAA
ATOM	364 C	GLU	45	46.163	43.710	63.889	1.00 22.32	AAAA
MOTA	365 O	GLU	45	45.400	42.739	62.748	1.00 20.15	AAAA
MOTA	366 N	LEU	46		44.204	61.448	1.00 25.80	AAAA
ATOM	367 CA	LEU	46	46.317	43.042	60.433	1.00 27.25	AAAA
ATOM	368 CB	LEU	46	46.137	44.397	58.997	1.00 37.72	AAAA
MOTA	369 CG	LEU	46	45.763	43.810	58.984	1.00 39.46	AAAA
MOTA	• . • .	1 LEU	46	44.356	45.632	58.101	1.00 35.43	AAAA
MOŤA		2 LEU	46	45.822	42.623	60.896	1.00 28.88	AAAA
MOTA	372 C	LEU	46	47.305	42.860		1.00 31.98	AAAA
MOTA	373 0	LEU	46	48.513	41.469		1.00 16.92	AAAA
ATOM	374 N	ILE	47	46.791	40.448		1.00 20.98	AAAA
MOTA	375 CA	ILE	47	47.638	39.046	_	1.00 21.51	AAAA
ATOM	376 CB		47	47.412	37.958		1.00 20.32	AAAA
MOTA		2 ILE	47	48.115			1.00 20.71	AAAA
MOTA		1 ILE	47	47.947			1.00 38.87	AAAA
ATOM	379 CD	1 ILE	47	49.450	_		1.00 24.50	AAAA
ATOM	380 C	ILE	47	47.227				AAAA
ATOM	381 O	ILE	47	46.036			1.00 18.73	AAAA
ATOM	382 N	LYS	48	48.195			1.00 15.55	AAAA
ATOM	383 CA		48	47.883			1.00 16.52	AAAA
ATOM	384 CB		48	49.095				AAAA
ATOM	385 - CG		48	48.836				AAAA
ATOM	386 CD		48	50.072				AAAA
ATOM	387 CE		18	49.796				AAAA
ATOM	388 NZ		48	48.704				AAAA
MOTA	389 C	LYS	48	47.473				AAAA
ATOM	390 ≎	LYS	48	48.177				AAAA
ATCM	391 N	SER	49	46.343				AAAA
ATOM	392 CA	SER	49	45.938				AAAA
ATOM	393 CE		49	44.517				AAAA
ATOM	394 00		49	43.509				AAAA
ATOM	395 C		49	46.810				AAAA
ATOM	396 0	SER	49	47.46	37.81	5 _52.663	5 I.UU IJ.JJ	

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ATOM	397	N	ARG	50	46.890	35.805	53.519	1.00 16.83	AAAA
	398								
ATOM		CA	ARG	50	47.724	35.037	52.610	1.00 23.88	AAAA
MOTA	399	CB	ARG	50	48.805	34.247	53.366	1.00 27.48	AAAA
ATOM	400	CG	ARG	50	48.284	33.036	54.177	1.00 22.99	AAAA
ATOM	401	CD	ARG	50	49.453	32.263	54.759	1.00 25.20	AAAA
ATOM	402	NE	ARG	50	49.073	31.197	55.684	1.00 15.88	AAAA
ATOM	403		ARG	50	48.411	30.093			
			•				55.368	1.00 14.34	A A A
ATOM	404	NH1	ARG	50	48.023	29.863	54.117	1.00 15.78	AAAA
ATOM	405	NH2	ARG	. 50	48.150	29.197	56.312	1.00 16.78	AAAA
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ATOM	406	С	ARG	50	46.821	34.023	51.905	1.00 20.20	AAAA
MOTA	407	0	ARG	50 -	45.763	33.650	52.414	1.00 18.63	AAAA
ATOM	408	N	PRO	51	47.203	33.596	50.699	1.00 15.63	AAAA
									•
atom	409	CD	PRO	51	48.322	34.028	49.850	1.00 19.45	AAAA
ATOM	410	CA	PRO	51	46.387	32.606	49.994	1.00 14.35	AAAA
ATOM	411	CB	PRO	51	47.076	32.514	48.629	1.00 17.73	AAAA
ATOM	412	CG	PRO	51	47.707	33.890	48.47-5	1.00 17.62	AAAA
ATOM	413	С	PRO	51	46.452	31.256	50.708	1.00 15.73	AAAA
ATOM	414	0	PRO	51	47.460	30.942	51.350	1.00 18.67	AAAA
ATOM	415	N	ALA	52	45.377	30.470	50.618	1.00 11.47	AAAA
ATOM	416	CA	ALA	52	45.375	29.117	51.161	1.00 9.78	AAAA
ATOM	417	CE	ALA	52	43.967	28.529	51.112	1.00 12.19	AAAA
ATOM	418	С	ALA	52	46.301	28.342	50.209	1.00 17.19	AAAA
ATOM	419	0	ALA	52	46.307	28.609	49.006	1.00 16.46	AAAA
ATOM	420	N	THR	53	47.081	27.392	50.723	1.00 16.40	AAAA
MOTA	421	ÇA	THR	53	47.952	26.615	49.843	1.00 16.32	AAAA
ATOM	422	CB	THR	53	49.109	25.959	50.612	1.00 15.82	AAAA
ATOM	423	OG1	THR	53	48.582	25.016	51.559	1.00 16.25	AAAA
		_							
ATOM	424	CG2	THR	53	49.923	27.030	51.336	1.00 14.34	AAAA
ATOM	425	С	THR	53	47.104	25.520	49.215	1.00 14.06	AAAA
ATOM	426	0	THR	53	46.012	25.241	49.690	1.00 17.87	AAAA
ATOM	427	N	LYS	54	47.599	24.903			
							48.145	1.00 16.10	AAAA
MOTA	428	CA	LYS	54	46.848	23.832	47.492	1.00 19.00	AAAA
ATOM	429	CB	LYS	54	47.671	23.245	46.339	1.00 22.92	AAAA
ATOM	430	CG	LYS	54	46.955	22.172	45.539	1.00 32.99	AAAA
		•							
ATOM	431	CD	LYS	54	45.787	22.733	44.757	1.00 51.34	AAAA
ATOM	432	CE	LYS	54	46.244	23.565	43.561	1.00 64.17	AAAA
ATOM	433	NZ	LYS	54	46.898	22.733	42.505	1.00 63.45	AAAA
									•
ATOM	434	C	LYS	54	46.554	22.738	48.520	1.00 22.48	AAAA
MOTA	435	0	LYS	54	45.463	22.158	48.555	1.00 19.97	AAAA
ATOM	436	N	GLU	55	47.536	22.465	49.364	1.00 25.65	AAAA
				55					
ATOM	437	CA	GLU		47.389	21.432	50.383	1.00 25.08	AAAA
ATOM ·	438	CB	GLU	55 .	48.718	21.241	51.116	1.00 25.40	AAAA
ATOM	439	CG	GLU	55	48.703	20.185	52.199	1.00 48.95	AAAA
ATOM	440	CD	GLU	55	50.106	19.821	52.673		
								1.00 64.21	AAAA
atom	441	OE1	GLU	5 5	50.220	19.033	53.640	1.00 62.38	AAAA
ATOM	42	OE2	GLU	55	51.093	20.311	52.073	1.00 58.22	AAAA
ATOM	4 43	С	GLU	55	46.273	21.773	51.362	1.00 18.91	AAAA
ATOM	-44	0	GLU	55	45.489	20.908	51.723	1.00 17.43	AAAA
ATOM	445	N	GLU	5 6	46.196	23.029	51.786	1.00 16.80	AAAA
ATOM	446	CA	GLU	56	45.137	23.432	52.698	1.00 17.24	AAAA
MOTA	447	CB	GLU	56	45.399	24.855	53.204	1.00 16.15	AAAA
ATOM	448	CG	GLU	56	46.709	24.941	54.009	1.00 14.41	AAAA
MOTA	449	CD	GLU	56	47.087	26.354	54.358	1.00 20.17	AAAA
MOTA	450		GLU	56	46.713	27.252	53.567	1.00 17.12	AAAA
ATOM	451	OE2	GLU	56	47.773	26.564	55.394	1.00 18.23	AAAA
ATOM	452	С	GLU	56	43.781	23.313	52.000	1.00 15.95	AAAA
	453		GLU	56	42.799	22.869	52.599	1.00 17.82	AAAA
ATOM		0							
MOTA	454	N	LEU	57	43.722	23.691	50.725	1.00 17.53	AAAA
ATOM	455	CA	LEU	57	42.466	23.579	49.989	1.00 16.34	AAAA
ATOM			LEU	57	42.591	24.177	48.586	1.00 13.86	AAAA
	456	CB							
ATOM	457	CG	LEU	57	42.773	25.707	48.552	1.00 15.24	AAAA
ATOM	458	CD1	LEU	57	42.923	26.182	47.101	1.00 19.30	AAAA
	459		LEU	57	41.546	26.380	49.207	1.00 15.14	AAAA
ATOM									
ATOM	460	Ç	LEU	57	42.016	22.126	49.868	1.00 18.46	AAAA
ATOM	461	0	LEU	57	40.824	21.823	49.972	1.00 17.27	AAAA
ATOM	462	N	LEU	58	42.975	21.234	49.636	1.00 16.43	AAAA
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ATOM	463	CA	LEU	58	42.662	19.822	49.475	1.00 15.18	AAAA
ATOM	464	CB	LEU	58	43.788	19.113	48.727	1.00 16.09	AAAA
ATOM	465	CG	LEU	58	44.029	19.682	47.321	1.00 21.72	AAAA
ATOM	466	CD1	LEU	58	45.221	18.982	46.680	1.00 31.92	AAAA
ATOM	467	CD2		58	42.786	19.549	46.469	1.00 34.38	AAAA
MOTA	468	С	LEU	58	42.339	19.116	50.787	1.00 21.19	AAAA
ATCM	469	0	LEU	58	42.067	17.914	50.795	1.00 20.40	AAAA
ATOM	470	N	LEU	59	42.377	19.849	51.896	1.00 13.50	AAAA .
ATOM	471	CA	LEU	59	41.958	19.261	53.173	1.00 15.58	AAAA
ATOM	472	CB .	LEU	59	42.182	20.236	54.339	1.00 18.98	AAAA
ATOM	473	CG	LEU	59	43.619	20.537	54.774	1.00 22.57	AAAA
ATOM	474	CD1	LEU	59	43.640	21.654	55.808	1.00 19.88	AAAA
ATOM	475	CD2	LEU	59.	44.255	19.253	55:339	1.00 26.71	AAAA
ATOM	476	С	LEU	59	40.446	18.979	53.043	1.00 17.55	AAAA
ATOM	477	0	LEU	59	39.897	18.112	53.724	1.00 18.02	AAAA
MOTA	478	N	PHE	60	39.766	19.737	52.179	1.00 14.64	- AAAA
MOTA	479	CA	PHE	60	38.338	19.536	51.970	1.00 18.17	AAAA
MOTA	480	CB	PHE	60	37.519	20.694	52.557	1.00 18.80	AAAA
ATOM	481	CG	PHE	60	36.028	20.564	52.316	1.00 15.94	AAAA
ATOM	482	CD1		60	35.320	19.476	52.817	1.00 19.98	AAAA
MOTA	483	CD2		60	35.339	21.524	51.576	1.00 18.09	AAAA
ATOM	484	CE1		60	33.947	19.338	52.587	1.00 18.72	AAAA .
MOTA	485	CE2		60	33.964	21.399	51.338	1.00 19.19	AAAA
ATOM	486	CZ	PHE	60	33.268	20.295	51.850	1.00 18.43	AAAA
ATOM	487	C	PHE	60	37.916	19.337	50.510	1.00 16.45	AAAA
ATOM	488	0	PHE	60	37.227	18.371	50.179	1.00 19.18	AAAA
ATOM	. 489		HIS	61	38.308	20.257	49.638	1.00 18.26	AAAA
atom atom	490 491		HIS'	61 61	37.913 38.004	20.163	48.235 47.582	1.00 14.47 1.00 17.15	AAAA
ATOM	492	CG	HIS	61	36.968	22.494	48.084	1.00 17.15	AAAA AAAA
ATOM	493	CD2		61	35.645	22.580	47.816	1.00 14.20	AAAA
ATOM	494	ND1		61	37.237	23.477	49.012	1.00 23.25	AAAA
ATOM	495	CE1		61	36.121	24.131	49.291	1.00 13.35	AAAA
ATOM	496	NE2		61	35.143	23.606	48.579	1.00 21.07	AAAA
ATOM	497		HIS	61	38.695	19.157	47.417	1.00 18.29	AAAA
ATOM	498		HIS	61	39.828	18.819	47.761	1.00 17.50	AAAA
ATOM	499	N	THR	62	38.071	18.658	46.346	1.00 15.39	AAAA
ATOM	500	CA	THR	62	38.741	17.686	45.473	1.00 19.02	AAAA
MOTA	501	CB	THR	62	37.734	16.767	44.756	1.00 19.61	AAAA
ATOM	502	OG1		62	36.795	17.548	44.006	1.00 22.05	AAAA
ATOM	503	CG2		62	36.995	15.925	45.767	1.00 28.99	AAAA
MOTA	504	С	THR	62	39.595	18.398	44.440	1.00 23.22	AAAA
atom	505	0	THR	62	39.311	19.532	44.044	1.00 17.47	AAAA
ATOM	506		GLU	63	40.657	17.732	44.009	1.00 18.94	AAAA
ATOM	507		GLU	63	41.571	18.324	43.046	1.00 22.44	AAAA
ATOM	508		GLU	63	42.736			1.00 28.31	AAAA
ATOM	509		GLU	63	43.885	17.476	43.708	1.00 60.37	AAAA
ATOM	510	CD OE1	GLU	63 63	45.154 45.603	16.893 17.407	43.115	1.00 55.08 1.00 66.44	AAAA AAAA
atom atom	511 512	OE2		63	45.697	15.927	43.694	1.00 00.44	AAAA
ATOM	513		GLU	63	40.983	18.764	41.730	1.00 18.63	AAAA
ATOM	514		GLU	63	41.340	19.827	41.228	1.00 18.37	AAAA
ATOM	515		ASP	64	40.108	17.943	41.153	1.00 19.77	AAAA
ATOM	515		ASP	64	39.508	18.277	39.864	1.00 17.88	AAAA
ATOM	517		ASP	64	38.584	17.159	39.372	1.00 20.43	AAAA
ATOM	518		ASP	64	37.429	16.884	40.330	1.00 42.71	AAAA
ATOM	519	OD1		64	36.415	16.291	39.899	1.00 45.01	AAAA
ATOM	520	OD2		64	37.537	17.243	41.521	1.00 51.77	AAAA
ATOM	521		ASP	64	38.701	19.582	39.964	1.00 21.90	AAAA
ATOM	522		ASP	64	38.726	20.410	39.042	1.00 17.35	AAAA
ATOM	523	N	TYR	65	37.980	19.750	41.072	1.00 16:17	AAAA
ATOM	524	CA	TYR	65	37.178	20.957	41.292	1.00 15.62	AAAA
ATOM	525		TYR	65	36.258	20.796	42.529	1.00 12.04	AAAA
ATOM	526		TYR	65	35.501	22.065	42.886	1.00 12.23	AAAA
ATOM	527	CD1		65	34.699	22.718	41.940	1.00 14.73	AAAA
ATOM	528	CE1	TYR	65	34.028	23.910	42.253	1.00 18.23	AAAA
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MOTA	529	CD2	TYR	65	35.609	22.631	44.163	1.00 13.67	AAAA
ATOM	530	CE2	TYR	65	34.943	23.824	44.486	1.00 18.16	AAAA
MOTA	531	CZ	TYR	65	34.162	24.461	43.533	1.00 16.88	AAAA
ATOM	532	OH	TYR	65	33.555	25.665	43.837	1.00 14.59	AAAA
ATOM	533	С	TYR	65	38.090	22.177	41.459	1.00 15.27	AAAA
				65	37.882				
ATOM	534	0	TYR		37.882	23.189	40.798	1.00 15.96	AAAA
ATOM	535	N	ILE	66	39.098	22.073	42.321	1.00 14.29	AAAA
	536		ILE	66	40.022				
MOTA		CA				23.179	42.540	1.00 18.86	AAAA
ATOM	537	CB	ILE	66	41.090	22.836	43.617	1.00 15.56	AAAA
ATOM	538	CG2	ILE	66	42.152	23.943	43.698	1.00 20.45	AAAA
ATOM	539	CG1	ILE	66	40.405	22.659	44.967	1.00 19.68	AAAA
ATOM	540	CD1	ILE	66	39.717	23.948	45.454	1.00 29.11	AAAA
MOTA	541	С	ILE	66	40.716	23.519	41.236	1.00 25.20	AAAA
MOTA	542	0	ILE	66	40.809	24.692	40.895	1.00 14.60	AAAA
	543	N	ASN	67	41.190	22.508	40.498	1.00 18.21	
ATOM									AAAA
ATOM	544	CA	ASN	67	41.879	22.789	39.236	1.00 20.03	AAAA
ATOM	545	CB	ASN	67	42.448	21.523	38.580	1.00 21.73	AAAA
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ATOM	546	CG	ASN	67	43.645	20.954	39.333		AAAA
ATOM	547	OD1	ASN	67	44.293	21.645	40.110	1.00 23.97	AAAA
	548		ASN	67	43.947	19.692			
MOTA							39.086	1.00 23.23	AAAA
MOTA	549	С	ASN	67	40.970	23.500	38.250	1.00 15.87	AAAA
ATOM	550	0	ASN	67	41.431	24.347	37.473	1.00 18.64	AAAA
ATOM	551	N	THR	68	39.681	23.180	38.295	1.00 16.55	AAAA
ATOM	552	CA	THR	68	38.729	23.814	37.400	1.00 20.34	AAAA
	553	СВ	THR	68	37.360	23.114		1.00 22.99	
MOTA							37.441		AAAA
ATOM	554	OG1	THR	68	37.511	21.760	36.978	1.00 21.75	AAAA
ATOM	555	CG2	THR	68	36.378	23.827	36.536	1.00 17.37	AAAA
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MOTA	556	C	THR	68 -	38.561	25.291	37.755	1.00 16.66	AAAA
ATOM	557	0	THR	68	38.472	26.139	36.871	1.00 18.79	AAAA
ATOM	558	N	LEU	69	38.534	25.604	39.045	1.00 14.82	AAAA
ATOM	559	CA	LEU	69	38.405	27.000	39.447	1.00 15.20	AAAA
ATOM	560	CB	LEU	69	38.295	27.126	40.973	1.00 16.87	AAAA
	561	CG	LEU	69	37.057	26.551	41.666	1.00 14.76	AAAA
ATOM									
ATOM	562	CD1	LEU	69	37.212	26.643	43.179	1.00 16.81	AAAA
ATOM	563	CD2	LEU	69	35.832	27.312	41.217	1.00 17.26	AAAA
ATOM	564		LEU	69	39.623	27.796	38.969	1.00 15.11	AAAA
		C							
ATOM	565	0	LEU	69	39.500	28.934	38.504	1.00 13.30	AAAA
MOTA	566	N	MET	70	40.803	27.204	39.090	1.00 13.40	AAAA
ATOM	567	CA	MET	70	42.019	27.894	38.659	1.00 16.97	AAAA
ATOM .	568	CB	MET	70	43.254	27.114	39.075	1.00 14.87	AAAA
ATOM	569	CG	MET	70	43.335	26.886	40.582	1.00 15.18	AAAA
ATOM	570	SD	MET	70	44.828	25.954	41.060	1.00 28.71	AAAA
atom	571	CE	MET	70	46.051	27.228	40.893	1.00 21.19	AAAA
ATOM	572	C	MET	70	42.064	28.119	37.155	1.00 19.11	AAAA
MOTA	573	0	MET	70	42.498	29.170	36.700	1.00 17.10	AAAA
MOTA	. 574	N	GL!	71	41.648	27.118	36.389	1.00 15.06	AAAA
ATOM	575	CA	GLU	71	41.651	27.226	34.934	1.00 16.12	AAAA
								1.00 10.12	
ATOM	576	CB	GLU	71	41.397	25.856	34.305	1.00 16.12	AAAA
ATOM	577	CG	GLU	71	41.387	25.882	32.800	1.00 20.26	AAAA
				71				1.00 32.31	
MOTA	578		GLU		42.782	25.920	32.193		AAAA
ATOM	579	OE1	GLU	71	42.893	25.741	30.958	1.00 27.07	AAAA
ATOM	580	OE2	71.11	71	43.762	26.117	32.941	1.00 24.85	AAAA
ATOM	581	C	GLU	71	40.580	28.208	34.466	1.00 16.48	AAAA
MOTA	- 582	0	GLU	71	40.831	29.066	33.611	1.00 17.20	AAAA
ATOM	583		ALA	72	39.380	28.097	35.027	1.00 15.68	AAAA
MOTA	584	CA	ALA	72	38.300	28.998	34.644	1.00 16.07	AAAA
ATOM	585	CB	ALA	72	37.035	28.669	35.425	1.00 17.21	AAAA
Mota	586	С	جتبع	72	38.678	30.453	34.897	1.00 19.07	AAAA
ATOM	587	0	ALA	72	38.448	31.326	34.054	1.00 15.92	AAAA
ATOM	588		GLU	73	39.260	30.726	36.062	1.00 15.86	AAAA
MOTA	589	CA	GLU	73	39.616	32.097	36.372	1.00 15.50	AAAA
ATOM	590	CB	GLU	73	40.046	32.210	37.828	1.00 14.12	AAAA
									AAAA
ATOM	591	CG	GLU	73	40.430	33.615	38.214	1.00 14.24	
ATOM	592	CD	GLU	73	40.961	33.699	39.629	1.00 17.23	AAAA
ATOM	593	OE1		73	40.147	33.696	40.573	1.00 18.51	AAAA
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MOTA	594	OE2	اللاق	73	42.201	33.753	39.793	1.00 20.88	MAMA

ATOM	595	С	GLU	73	40.706	32.709	35.495	1.00 20.36	AAAA
		Ö	GLU	73	40.527	33.806	34.948	1.00 17.74	AAAA
MOTA	596				41.832	32.020	35.344	1.00 21.57	AAAA
MOTA	597	N	ARG	74				1.00 19.48	AAAA
ATOM	598	CA	ARG	74	42.911	32.623	34.574		
ATOM	599	CB	ARG	74	44.256	31.912	34.834	1.00 18.48	AAAA
			ARG	74	44.365	30.489	34.351	1.00 14.96	AAAA
ATOM	600	CG			45.723	29.892	34.745	1.00 15.05	AAAA
ATOM	601	CD	ARG	74					AAAA
MOTA	602	NE	ARG	74	45.918	28.696	33.950	1.00 18.16	
		CZ	ARG	. 74	46.439	28.682	32.727	1.00 16.31	AAAA
MOTA	603				46.843	29.811	32.145	1.00 19.74	AAAA
MOTA	604	NHl		74			32.047	1.00 14.73	AAAA
ATOM	605	NH2	ARG	74	46.46.6	27.536			
ATOM	606	С	ARG	74	42.643	32.718	33.084	1.00 16.86	AAAA
			ARG	74	43.148	33.621	32.426	1.00 15.41	AAAA
MOTA	607	0			41.859	31.794	32.547	1.00 17.56	AAAA
ATOM	608	N	CYS	75				1.00 18.24	AAAA
MOTA	609	CA	CYS	75	41.544	31.833	31.115		
	610	CB	CYS	75	41.474	30.414	30.545	1.00 20.94	AAAA
MOTA				75	43.047	29.514	30.572	1.00 19.30	AAAA
MOTA	611	SG	CYS			32.561	30.898	1.00 15.81	AAAA
MOTA	612	С	CYS	75	40.216				AAAA
ATOM	613	0	CYS	75	39.762	32.748	29.762	1.00 17.79	
	614	N	GLN	76	39.601	32.959	32.007	1.00 15.63	AAAA -
MOTA				76	38.339	33.686	32.010	1.00 23.22	AAAA
ATOM	615	CA	GLN				31.530	1.00 22.99	AAAA
A-I-OM	616	CB	GLN	76	38.595	35.122			AAAA
ATOM	617	CG	GLN	76	37.564	36.107	32.027	1.00 44.69	
		CD	GLN	76	37.588	36.229	33.535	1.00 47.78	AAAA
MOTA	618				37.563	35.228	34.243	1.00 62.95	AAAA
ATOM	619		GLN	76		37.452	34.033	1.00 45.96	AAAA
MOTA	620	NE2	GLN	76	37.619	-		1.00 43.50	AAAA
MOTA	621	С	GLN	76	37.304	32.975	31.135	1.00 23.43	
	622	Õ	GLN	76	36.826	33.512	30.135	1.00 19.93	AAAA
MOTA				77	36.951	31.754	31.521	1.00 15.97	AAAA
MOTA	623	N	CYS			30.979	30.741	1.00 18.91	AAAA
MOTA	624	CA	CYS	77	36.004			1.00 24.64	AAAA
ATOM	625	CB	CYS	77	36.738	30.225	29.623		
	626	SG	CYS	77	37.848	28.887	30.269	1.00 25.26	AAAA
ATOM				77	35.302	29.951	31.594	1.00 19.68	AAAA
MOTA	627	C	CYS			29.702	32.732	1.00 20.02	AAAA
ATOM	628	0	CYS	77	35.685			1.00 16.00	AAAA
ATOM	629	N	VAL	78	34.254	29.366	31.022		AAAA
ATOM	630	CA.	VAL	78	33.531	28.288	31.671	1.00 18.73	
			VAL	78	32.016	28.455	31.557	1.00 15.57	AAAA
MOTA	631	CB			31.312	27.304	32.262	1.00 21.27	AAAA
ATOM	632		VAL	78			32.151	1.00 19.47	AAAA
ATOM .	633	CG2	VAL	78	31.603	29.792		1.00 13.4	AAAA
ATOM	634	С	VAL	78	33.950	27.077	30.859	1.00 24.02	
			VAL	78	33.499	26.894	29.718	1.00 24.08	AAAA
MOTA	635	0			34.848	26.249	31.420	1.00 18.91	AAAA
MOTA	636	N	PRO	79			32.756	1.00 17.70	AAAA
ATOM	637	CD	PRO	79	35.470	26.341			AAAA
ATOM	638	CA	PRO	79	35.320	25.056	30.720	1.00 23.37	
		CB	PRO	79	36.295	24.432	31.732	1.00 21.92	AAAA
atom	639			79	36.802	25.677	32.498	1.00 20.90	AAA r
ATOM	640	CG	PRO					1.00 27.44	.AAA.
MOTA	641	С	PRO	79	34.152	24.144	30.376		AAA
MOTA	642	0	PRO	79	33.177	24.064	31.119		
			LYS	80	34.245	23.488	29.224	1.00 23.35	AAAA
MOTA	643	N			33.212	22.570	28.775	1.00 26.78	AAAA
ATOM	644	CA	LYS	80		21.853			AAAA
MOTA	645	CB	LYS	80	33.708				AAAA
ATOM	646	CG	LYS	80	35.098	21.256		1.00 51.34	
	647	כם	LYS	80	35.669	20.817	26.336	1.00 68.70	AAAA
MOTA					37.131	20.401	26.451	1.00 70.04	AAAA
MOTA	648	CE	LYS	80	37.131				AAAA
ATOM	649	NZ	LYS	80	37.688				AAAA
	650	С	LYS	80	32.875	21.571	29.875		
ATOM		õ	LYS	80	33.770	20.957	30.458	1.00 24.23	AAAA
MOTA	65,1				31.582				AAAA
ATCM	652	N	GLY	81					AAAA
MOTA	653	CA	GLY	81	31.126				AAAA
	654	C	GLY	91	31.151				
ATOM			GLY	81	30.604	20.396	33.527	1.00 19.29	AAAA
MOTA	655	0			31.754				AAAA
MOTA	656	N	ALA	82					AAAA
ATOM	657	CA	ALA	82	31.858	22.738			AAAA
	658			82	33.065				
ATCM			ALA		30.610			1.00 21.81	AAAA
ATCM	659				30.425				AAAA
ATCM	660	0	ALA	82	JU. 42-			-	•

				•		•			
ATCM	661	N	ARG	83	29.758	23.926	33.897	1.00 17.68	£AAA
ATCM	662	CA	AEG		28.549	24.596	34.360	1.00 17.00	AAAA
ATCM	663	СВ	ARG		27.777	25.188	33.176	1.00 21.02	
ATCM	664	CG	ARG	83	26.938	26.395	33.528		AAAA
ATCM	665	CD	ARG		26.061	26.167	34.729	1.00 36.77	AAAA
ATCH	666	NE	ARG	83	25.366			1.00 41.28	AAAA
ATCM	667	CZ	ARG	83		27.393	35.105	1.00 40.05	AAAA
ATOM	668				24.530	27.492	36.134	1.00 51.15	AAAA
			ARG	83	24.286	26.432	36.893	1.00 55.10	AAAA
ATCM	669		ARG		23.931	28.646	36.399	1.00 54.26	AAAA
ATCM	670	С	ARG	83	27.701	23.530	35.030	1.00 21.33	AAAA
ATCM	671	0	ARG	83	- 27.193	23.708	36.130	1.00 24.88	AAAA
ATCM	672	N	GLU	84	27.565	22.406	34.352	1.00 18.76	AAAA
MOTA	673	CA	GLU	84	26.768	21.299	34.859	1.00 24.12	AAAA
ATCM	674	CB	GLU	84	26.527	20.290	33.744	1.00 32.64	AAAA
MOTA	675	CG	GLU	84	27.769	19.994	32.925	1.00 37.91	AAAA
ATOM	676	CD	GLU	84	27.832	20.784	31.612	1.00 51.24	AAAA
ATCM	677	OE1	. GLU	84	27.585	20.152	30.545	1.00 24.82	AAAA
ATCM	678	OE2	GLU	84	28.114	22.018	31.650	1.00 22.57	AAAA
MOTA	679	С	GLU	84	27.394	20.570	36:043	1.00 25.36	AAAA
MOTA	680	0	GLU	84	26.739	20.321	37.057	1.00 26.17	AAAA
ATCM	681	N	LYS	85	28.665	20.232	35.897	1.00 18.78	AAAA
MOTA	682	CA	LYS	85	29.399	19.497	36.915	1.00 20.03	AAAA
ATCM	683	CB	LYS	85	30.658	18.900	36.280	1.00 18.59	AAAA
ATOM	684	CG	LYS	85	31.603		37.268	1.00 35.69	AAAA
MOTA	685	CD	LYS	85	31.151	16.832	37.644	1.00 51.51	AAAA
ATOM	686	CE	LYS	85	31.451	15.864	36.520	1.00 59.18	AAAA
ATOM	687	NZ	LYS	85	32.914	15.858	36.240	1.00 56.63	AAAA
MOTA	688	C	LYS	85	29.811	20.263	38.181	1.00 18.31	AAAA
MOTA	689	0	LYS	85	29.696	19.738	39.290	1.00 21.65	AAAA
ATCM	690	N	TYR	86	30.274	21.495	38.012	1.00 19.45	AAAA
ATOM	691	CA	TYR		30.776	22.272	39.145	1.00 14.26	AAAA
ATOM	692	CB	TYR	86	32.207	22.692	38.840	1.00 14.95	AAAA
ATCM	693	CG	TYR	86	33.107	21.508	38.585	1.00 19.76	AAAA
MOTA	694	CD1	TYR	86 .	33.384	20.591	39.601	1.00 18.83	AAAA
ATOM	695	CE1		86	34.247	19.519	39.388	1.00 20.29	AAAA
ATCM	696	CD2	TYR	86	33.711	21.322	37.337	1.00 18.14	AAAA
MOTA	697	CE2	TYR	86	34.567	20.261	37.112	1.00 22.66	AAAA
ATCM	. 698	CZ	TYR	86	34.832	19.364	38.145	1.00 22.51	AAAA
MOTA	699	OH	TYR	86	35.680	18.317	37.921	1.00 23.68	AAAA
ATOM	700	С	TYR	86	29.967	23.493	39.526	1.00 19.03	AAAA
ATOM	701	0	TYR	86	30.353	24.226	40.450	1.00 19.18	AAAA
ATOM	702	N	ASN	87	28.873	23.721	38.803	1.00 17.59	AAAA
ATOM	703	CA	ASN	87	27.953	24.843	39.071	1.00 18.07	AAAA
ATCM	704	CB	ASN	87	27,413	24.730	40.514	1.00 23.87	AAAA
ATOM	705	CG	ASN	87	26.020	25.349	40.688	1.00 30.67	'AAAA
ATOM	706		ASN	87	25.531	25.520	41.819	1.00 31.55	AAAA
ATOM	707		ASN	87	25.370	25.661	39.580	1.00 20.18	AAAA
ATCM	708	C	ASN	87	28.641	26.197	38.875	1.00 24.24	AAAA
ATCM	709	Q	ASN	87	28.283	27.190	39.519	1.00 18.57	AAAA
ATCM	710	N	ILE	88	29.617	26,237	37.970	1.00 18.80	AAAA
ATCM	711	CA	ILE	88	30.353	27.471	37.680	1.00 18.55	AAAA
ATOM	712	CB	ILE	88	31.865	27.166	37.508	1.00 26.44	AAAA
ATCM	713		ILE	88	32.613	28.406	37.044	1.00 43.71	AAAA
ATCM	714		ILE	88	32.439	26.703 ·	38.835	1.00 36.30	AAAA
ATOM	715		ILE	88	32.295	27.735	39.888	1.00 24.08	AAAA
ATOM	716	С	ILE	88	29.887	28.142	36.392	1.00 14.36	AAAA
ATOM	717	0	ILE	38	29.584	27.459	35.426	1.00 21.93	AAAA
ATOM	718	N	GLY	89	29.843	29.473	36.380	1.00 18.71	AAAA
MOTA	719	CA	GLY	89	29.479	30.162	35.154	1.00 20.23	AAAA
ATOM	720	С	GLY	89	28.147	30.873	35.106	1.00 20.85	AAAA
ATCM	721	9	GLY	89	28.006	31.817	34.330	1.00 25.47	AAAA
ATCM	722	N	GLY	90	37.172	30.414	35.889	1.00 21.17	AAAA
ATOM	723	CA	GLY	90	25.863	31.060	35.898	1.00 24.44	AAAA
ATCM	724	C	GLY	90	25.862	32.371	36.668	1.00 30.60	AAAA
ATCM	725	0	GLY	90	26.900	32.788	37.168	1.00 28.13	AAAA
ATCM	726	71	TYR	91	24.708	33.036	36.755	1.00 23.38	AAAA

WO 01/18045 PCT/US00/24700

30/263 Figure 16-12

				_					_	
	777	Ch	TYR	91		24.598	34.299	37.490	1.00 28.48	AAAA
MOTA	727	CA		91		23.144	34.753	37.545	1.00 29.88	AAAA
MOTA	728	CB	TYR			22.923	35.899	38.518	1.00 33.88	AAAA
ATOM	729	CG	TYR	91					1.00 39.69	AAAA
MOTA	730	CD1	TYR	91		23.329	37.197	38.207	1.00 31.76	-AAAA
ATOM	731	CE1	TYR	91		23.130	38.250	39.104		
ATOM-	732			91		22.317	35.678	39.759	1.00 40.63	AAAA
	733	CE2	TYR	91		22.115	36.720	40.664	1.00 37.07	AAAA
MOTA		CZ	TYR	91		22.521	38.002	40.327	1.00 36.22	AAAA
ATOM	734		TYR	91		22.306	39.035	41.210	1.00 44.71	АААА
MOTA	735	ОН		91		25.075	34.157	38.937	1.00 23:59	AAAA
MOTA	735	C	TYR			25.713	35.041	39.502	1.00 22.64	AAAA
MOTA	737	0	TYR	91			33.032	39.531	1.00 23.09	AAAA
ATOM	738	N	GLU	92		24.724		40.917	1.00 26.61	AAAA
MOTA	739	CA	GLU	92		25.048	32.747		1.00 20.01	AAAA
ATOM	740	CB	GLU	92		24.289	31.476	41.306		AAAA
ATOM	741	CG	GLU	92		24.595	30.892	42.657	1.00 41.38	
ATOM	742	CD	GLU	92		23.604	29.800	43.023	1.00 49.02	- AAAA
	743		GLU	92		24.008	28.829	43.715	1.00 45.51	AAAA
MOTA			GLU	92		22.418	29.931	42.628	1.00 38.16	AAAA
MOTA	744		GLU	92		26.541	32.636	41.251	1.00 25.78	AAAA
MOTA	745	C .		92		27.045	33.358	42.125	1.00 24.95	AAAA
MOTA	746	0	GLU			27.243	31.742	40.556	1.00 21.41	AAAA
ATOM	747	N -	ASN	93		_	31.519	40.777	1.00 21.14	AAAA
ATOM	748	CA	ASN	93		28.674		41.226	1.00 17.27	AAAA
MOTA	749	CB	ASN	93		28.876	30.075	42.320	1.00 17.27	AAAA
MOTA	750	CG	ASN	93		27.905	29.682		1.00 20.33	AAAA
MOTA	751	OD1	ASN	93		27.882	30.290	43.399		AAAA .
ATOM	752	ND2	ASN	93		27.078	28.674	42.047	1.00 20.49	
ATOM	753	С	ASN	93		29.378	31.778	39.445	1.00 22.25	AAAA
	754	Ö	ASN	93		29.901	30.865	38.806	1.00 20.29	AAAA
ATOM	755	N-	PRO	94		29.451	33.057	39.045	1.00 25.45	AAAA
ATOM	756	CD	PRO	94		29.027	34.221	39.839	1.00 23.03	AAAA
ATOM			PRO	94		30.055	33.523	37.794	1.00 23.05	AAAA
MOTA	757	CA		94		29.669	35.004	37.759	1.00 28.71	AAAA
ATOM	758	CB	PRO			28.528	35.112	38.755	1.00 40.02	AAAA
MOTA	759	CG	PRO	94 .		31.554	33.384	37.697	1.00 26.51	AAAA
MOTA	760	С	PRO	94		32.232	33.185	38.688	1.00 17.36	AAAA
MOTA	761	0	PRO	94			33.498	36.478	1.00 21.12	AAAA
MOTA	762	N	VAL	95		32.068		36.281	1.00 17.00	AAAA
MOTA	763	CA	VAL	95		33.506	33.493	34.796	1.00 25.15	AAAA
ATOM	764	CB	VAL	95		33.851	33.242		1.00 27.19	AAAA
ATOM	765	CG1	VAL	95		35.326	33.537	34.533	1.00 27:13	AAAA
ATOM	766	CG2	VAL	95		33.551	31.791	34.443		AAAA
ATOM	767	С	VAL	95		33.989	34.899	36.686	1.00 17.42	AAAA
ATOM	768	ō	VAL	95		33.426	35.894	36.237	1.00 23.43	AAAA
	769	N	SER	96		34.986	34.982	37.563	1.00 18.84	
ATOM	770	CA	SER	96		35.564	36.270	37.982	1.00 21.77	AAAA
MOTA	771	CB	SER	96		34.608	37.070	38.867	1.00 23.11	AAAA
MOTA			SER	96		34.723	36.679	40.223	1.00 24.43	AAAA
MOTA	772	OG		96		36.835	35.987	38.789	1.00 29.09	AAAA
MOTA	773	С	SER	96		37.117	34.828		1.00 27.12	AAAA
ATCM	774	0	SER			37.610			1.00 17.51	AAAA
ATOM.	775		TYR	97	1	38.803	36.751			AAAA
MOTA	776	CA	TYR	97						AAAA
MOTA	777	CB	TYR	97		39.865				AAAA
ATOM	778	CG	TYR	97		40.492				AAAA
ATOM	779	CD:	1 TYR	97		39.936				AAAA
ATOM	780		1 TYR	97		40.473				AAAA
ATOM	781	CD:	2 TYR	97		41.599				AAAA
	782		2 TYR	97		42.144	36.771			
MOTA	782			97		41.578	37.439			AAAA
ATOM				97		42.122		34.501		AAAA
ATOM	784			97		38.510			1.00 20.12	AAAA
MOTA	785		TYR	97		39.413			1.00 19.76	AAAA
ATOM	786		TYR			37.243			1.00 18.56	AAAA
ATOM	787		ALA			36.899				AAAA
ATOM	788					35.561				AAAA
ATOM	789									AAAA
ATOM	790) C	ALA			36.776) 34./42) 34.164			AAAA
ATOM	791	. 0	ALA			36.931				AAAA
37011		N	MET	99		36.538	34.094	4.00	1.00 10.04	

ATOM

					_				
ATOM	793	CA	MET	99	36.295	32.643	42.117	1.00 17.60	AAAA
					35.864	32.137	40.736	1.00 17.05	AAAA
MOTA	794	CB	MET	99					
MOTA	795	CG	MET	99	36.999	31.824	39.793	1.00 11.16	AAAA
MOTA	796	SD	MET	99	36.314	31.698	38.113	1.00 16.54	AAAA
					35.165	30.295	38.312	1.00 17.83	AAAA
ATOM	797	CE	MET	99					
MOTA	798	C	MET	99	37.432	31.800	42.650	1.00 18.98	AAAA
	799	0	MET	99	37.197	30.753	43.251	1.00 18.21	AAAA
MOTA									AAAA
ATOM	800	N	PHE	100	38.670	32.216	42.420	1.00 12.87	
ATOM	801	CA	PHE	100	39.774	31.439	42.987	1.00 17.13	AAAA .
	802		PHE	100	40.559	30.681	41.917	1.00 15.23	AAAA
MOTA		CB							
ATOM	803	CG	PHE	100	41.647	29.834	42.492	1.00 15.20	AAAA
ATOM	804	CD1	PHE	100	41.342	28.638	43.140	1.00 22.96	AAAA
					42.972	30.282	42.488	1.00 17.12	AAAA .
MOTA	805		PHE	100					
ATOM	806	CE1	PHE	100	42.341	27.901	43.782	1.00 19.23	AAAA
	807	CE2	PHE	100	43.974	29.552	43.129	1.00 16.99	AAAA
MOTA							43.779	1.00 17.78	AAAA
ATOM	808	CZ	PHE	100	43.658	28.360			
ATOM	809	С	PHE	100	40.755	32.305	43.774	1.00 20.54	AAAA
	810	ō	PHE	100	41.088	31.990	44.912	1.00 21.45	AAAA
MOTA									AAAA
ATOM	811	N	THR	101	41.219	33.401	43.187	1.00 18.02	
MOTA	812	CA	THR	101	42.177	34.245	43.902	1.00 15.25	AAAA
			THR	101	42.715	35.341	42.976	1.00 16.33	AAAA
MOTA	813	CB							AAAA
ATOM	814	OG1	THR	101	43:386	34.720	41.870	1.00 16.01	
ATOM	815	CG2	THR	101	43.706	36.226	43.697	1.00 16.31	AAAA
				101	41.567	34.860	45.160	1.00 14.12	AAAA
ATOM	816	С	THR						
MOTA	817	0	\mathtt{THR}	101	42.110	34.707	46.244	1.00 16.86	AAAA
ATOM	818	N	GLY	102	40.435	35.541	45.008	1.00 13.77	AAAA
					39.770	36.145	46.156	1.00 16.29	AAAA
MOTA	819	CA	GLY	102					
ATOM	820	С	GLY	102	39.330	35.065	47.133	1.00 16.75	AAAA
ATOM	821	0	GLY	102	39.502	35.202	48.338	1.00 14.48	AÄAA
					38.752	33.986	46.615	1.00 16.24	AAAA
MOTA	822	N	SER	103					
MOTA	823	CA	SER	103	38.315	32.890	47.488	1.00 16.72	AAAA
ATOM	824	CB	SER	103	37.567	31.821	46.684	1.00 15.97	AAAA
					36.339	32.349	46.197	1.00 26.86	AAAA
ATOM	825	OG	SER	103					AAAA
ATOM	826	С	SER	103	39.494	32.264	48.218	1.00 17.88	
ATOM	827	0	SER	103	39.405	31.974	49.419	1.00 14.17	AAAA
				104	40.604	32.057	47.515	1.00 11.40	AAAA
MOTA	828	N	SER						AAAA
MOTA	829	CA	SER	104	41.780	31.484	48.181	1.00 17.61	
ATOM	830	CB	SER	104	42.888	31.206	47.160	1.00 15.89	AAAA
				104	42.525	30.102	46.362	1.00 27.82	AAAA
MOTA	831	OG	SER						AAAA
MOTA	832	С	SER	104	42.332	32.404	49.271	1.00 17.02	
ATOM	833	0	SER	104	42.867	31.958	50.286	1.00 15.37	AAAA
			LEU	105	42.206	33.698	49.052	1.00 17.10	AAAA
MOTA	834	N						1.00 16.95	AAAA
ATOM	835	CA	LEU	105	42.709	34.652	50.016		
ATOM	836	CB	LÉU	105	42.728	36.037	49.365	1.00 18.44	AAAA
		ĊĠ	LEU	105	43.613	37.108	49.981	1.00 29.88	AAAA
MOTA	837						49.959	1.00 20.25	AAAA
ATOM	838	CD1	LEU	105	45.086	36 631			
ATOM	839	CD2	LEU	105	43.438	38 418	49.175	1.00 29.39	AAAA
	940	С	LEU	105	41.837	34 637	51.282	1.00 14.81	AAAA
ATOM								1.00 17.74	AAAA
MOTA	841	0	LEU	105	42.334	34.703	52.404		
MOTA	842	N	ALA	106	40.532	34.531	51.095	1.00 19.28	AAAA
	843	CA	ALA	106	39.601	34.493	52.224	1.00 12.39	AAAA
MOTA							51.704	1.00 11.58	AAAA
ATOM	844	CB	خبلۃ	106	38.140	34.574			
ATOM	845	С	ALA	106	39.807	33.210	53.023	1.00 14.79	AAAA
		ō	ALA	106	39.704	33.203	54.250	1.00 13.58	AAAA
ATOM	846						52.318	1.00 13.67	AAAA
ATOM	847	N	THR	107	40.114	32.128			
ATOM	848	CA	THR	107	40.314	30.819	52.956	1.00 13.21	AAAA
		CB	THR	107	40.187	29.708	51.902	1.00 14.95	AAAA
MOTA	849							1.00 15.72	AAAA
MOTA	850	OG1	THR	107	38.868	29.792			
ATOM ·	851	CG2	TUD	107	40.422	28.311	52.511	1.00 9.51	AAAA
			THR	107	41.649	30.751	53.687	1.00 15.80	AAAA
ATCM	852	C						1.00 15.63	AAAA
ATOM	853	0	THR	107	41.734	30.206			
ATOM	854	N	GLY	108	42.696	31.294	53.∙082	1.00 14.08	AAAA
	855	CA	GLY	108	43.968	31.298		1.00 14.62	AAAA
ATOM							55.041	1.00 20.05	AAAA
ATOM	856	С	GLY	108	43.801	32.119			
ATOM	857	0	GLY	108	44.417	31.813	56.063		AAAA
	858	N	SER	109	42.963	33.158		1.00 15.26	AAAA
ATCM	030	1.4	אינים				-		-
				•					

Figure 16-14

					•					
ATOM	859	CA	SER	109		42.727	34.020	56.153	1.00 14.54	AAAA
ATOM	860	CB	SER	109		41.906	35.248	55.737	1.00 15.58	AAAA
ATOM	861	OG	SER	109		42.627	36.045	54.809	1.00 16.97	AAAA
ATOM	862	C	SER	109		42.037	33.264	57.297	1.00 15.56	AAAA
ATOM	863	Ö	SER	109		42.189	33.600	58.487	1.00 17.00	AAAA
ATOM	864	И	THR	110		41.261	32.247	56.944	1.00 14.37	AAAA
	865	CA	THR	110		40.608	31.435	57.957	1.00 12.89	AAAA
ATOM	866	CB	THR	110		39.452	30.628	57.360	1.00 14.54	ሕልልሕ
MOTA	867	OĞ1	THR	110		38.346	31.519	57.163	1.00 18.11	AAAA
MOTA	868	CG2	THR	110		39.061	29.452	58.278	1.00 12.91	AAAA
MOTA	869	CGZ	THR	110		41.633	30.524	58.601	1.00 18.44	AAAA
MOTA		0	THR	110		41.574	30.302	59.806	1.00 16.30	AAAA
MOTA	870	Ŋ	VAL	111		42.584	30.013	57.816	1.00 15.20	AAAA
MOTA	871 872	CA	VAL	111		43.514	29.180	58.403	1.00 20.45	AAAA
MOTA	873	CB	VAL	111		44.517	28.514	57.323	1.00 20.02	AAAA
MOTA	874		VAL	111		45.652	27.765	58.005	1.00 21.79	AAAA
ATOM	875		VAL	111		43.697	27.537	56.482	1.00 19.07	AAAA
MOTA	876	C	VAL	111		44.456	30.075	59.327	1.00 18.21	AAAA
MOTA	877	0	VAL	111		44.838	29.672	60.431	1.00 18.65	AAAA
ATOM		Ŋ	GLN	112	•	44.731	31.302	58.890	1.00 16.82	AAAA
ATOM	878 879	CA	GLN	112		45.493	32.232	59.719	1.00 20.13	AAAA
ATOM	880	CB	GLN	112		45.751	33.540	58.970	1.00 22.39	AAAA
ATOM	881	CG	GLN	112		46.593	33.360	57.723	1.00 21.17	AAAA
MOTA		CD	GLN	112		46.797	34.651	56.982	1.00 24.82	AAAA
MOTA	882	OE1	GLN	112		47:772	35.381	57.219	1.00 25.62	AAAA
MOTA	883 884	NE2	GLN	112			. 34.963	56.091	1.00 13.16	አ ጸጸአ
ATOM	885	C	GLN	112		44.743	32.516	61.012	1.00 23.99	AAAA
MOTA	886	0	GLN	112		45.340	32.593	62.079	1.00 17.94	AAAA
MOTA	887	Й	ALA	113		43.431	32.700	60.924	1.00 15.60	AAAA
MOTA	-888	CA	ALA	113		42.653	32.941	62.138	1.00 15.04	AAAA
ATOM	889	CB	ALA	113		41.191	33.138	61.802	1.00 18.65	AAAA
ATOM	890	C	ALA	113		42.807	31.751	63.083	1.00 14.84	AAAA
atom atom	891	0 .	ALA	113		42.941	31.909	64.296	1.00 21.05	AAAA
MOTA	892	N	ILE	114		42.767	30.550	62.534	1.00 16.45	AAAA
ATOM	893	CA	ILE	114		42.919	29.383	63.389	1.00 15.38	AAAA
ATOM	894	CB	ILE	114		42.600	28.100	62.637	1.00 15.22	AAAA
ATOM	895		ILE	114		42.888	26.893	63.537	1.00 15.72	AAAA
ATOM	896	CG1		114		41.110	28.112	62.244	1.00 19.28	AAAA
MOTA	897		ILE	114		40.744	27.038	61.191	1.00 13.43	AAAA
ATOM	898	c	ILE	114		44.329	29.318	63.968	1.00 18.02	AAAA
ATOM	899	ō	ILE	114		44.508	28.998	65.156	1.00 20.38	AAAA
MOTA	900	N	GLU	115		45.328	29.629	63.144	1.00 15.27	አ አአአ
MOTA	901	CA	GLU	115		46.726	29.626	63.614	1.00 21.48	AAAA
ATOM	902	CB	GLU	115		47.690	30.080	62.506	1.00 21.76	AAAA
ATOM	903	CG	GLU	115		47.884	29.080	61.386	1.00 15.78	AAAA
MO A	904	CD	GLU	115		48.670	29.648	60.211	1.00 20.04	AAAA
A COM	905		GLU	115		49.051	30.843	60.239	1.00 21.48	AAAA
ALOM	906		GLU	115		48.901	28.902	59.241	1.00 26.59	AAAA
MOTA	907	С	GLU	115		46.877	30.559	64.814	1.00 23.55	AAAA
ATOM	908	Ō	GLU	115		47.509	30.212	65.815	1.00 23.03	AAAA
MOTA	909	N	GLU	116		46.295	31.748	64.703	1.00 22.73	AAAA
MOTA	910	CA	GLU	116		46.367	32.735	65.774	1.00 20.54	AAAA
MOTA	911	CB	GLU	116		45.744	34.044	65.320	1.00 18.40	AAAA
MOTA	. 912	CG	GLU	116		46.562	34.765	64.279	1.00 19.76	AAAA
MOTA	913	CD	GLU	116		47.985	34.998	64.756	1.00 27.24	AAAA
ATOM	914		GLU	116		48.164	35.630	65.815	1.00 18.44	AAAA
ATOM	915		GLU	116		48.919	34.543	64.078	1.00 23.17	AAAA
ATOM	916	c	GLU	116		45.682	32.253	67.034	1.00 25.39	AAAA
ATOM	917	ò	GLU	116		46.207	32.427	68.137	1.00 22.87	AAAA
ATOM	918	Ŋ	PHE	117		44.510	31.647	66.872	1.00 18.78	አ <mark>አ</mark> አአ
ATOM	919	CA	PHE	117		43.778	31.139	68.019	1.00 22.11	AAAA
ATOM	920	CB	PHE	117		42.451	30.530	67.581	1.00 23.14	AAAA
ATOM	921	CG	PHE	117		41.603	30.054	68.728	1.00 24.06	AAAA
ATOM	922		PHE	117		40.880	30.961		1.00 19.67	AAAA
. ATOM	923		PHE	117		41.559	28.701			AAAA
ATOM	924		PHE	117		40.115	30.531		1.00 23.68	AAAA
ALOM	J 44 - 1	~ .		_						•

ATOM	925	CE2	PHE	117	40.799	28.262	70.156	1.00 24.04	AAAA
			PHE	117	40.078	29.179	70.915	1.00 19.62	AAAA
MOTA	926					30.068	68.747	1.00 23.87	AAAA
ATOM	927		PHE	117	44.587				
ATOM	928	0	PHE	117	44.613	30.031	69.979	1.00 24.40	AAAA
ATOM	929	N	LEU.	118	45.238	29.194	67.981	1.00 21.09	AAAA
ATOM	930		LEU	118	46.025	28:113	68.549	1.00 20.73	AAAA
	931.		LEU	118	46.358	27.075	67.480	1.00 17.90	AAAA
ATOM						26.264	66.984	1.00 26.20	AAAA
MOTA	932		LEU	118	45.148				
MOTA	933	CD1	LEU	118	45.591	25.288	65.924	1.00 34.23	AAAA
MOTA	934	CD2	LEU	118	44.520	25.499	68.139	1.00 27.16	AAAA
ATOM	935		LEU	118 -	47.290	28.601	69.238	1.00 26.49	AAAA
					47.908	27.856	69.996	1.00 26.34	AAAA
ATOM	936		LEU	118				1.00 28.92	AAAA
MOTA	937	N	LYS	119	47.672	29.848	68.975		
ATOM	938	CA	LYS	119	48.835	30.459	69.624	1.00 28.53	AAAA
MOTA	939	CB	LYS	119	49.392	31.616	68.805	1.00 30.15	AAAA
	940	CG	LYS	119	49.915	31.267	67.437-	1.00 35.14	AAAA
ATOM				119	50.291	32.549	66.716	1.00 28.98	AAAA
MOTA	941	CD	LYS					1.00 31.07	AAAA
MOTA	942	CE	LYS	119	50.905	32.262	65.380		
ATOM	943	NZ	LYS	119	51.195	33.551	64.745	1.00 22.46	AAAA
ATOM	944	С	LYS	119	48.335	31.053	70.932	1.00 35.74	AAAA
	945	ō	LYS	119	49.117	31.541	71.750	1.00 27.10	AAAA
ATOM				120	47.018	31.050	71.103	1.00 25.20	AAAA
MOTA	946	N	GLY					1.00 30.18	AAAA
MOTA	947	CA	GLY	120	46.445	31.605	72.309		
MOTA	948	С	GLY	120	45.913	33.007	72.122	1.00 31.91	AAAA
MOTA	949	0	GLY	120	45.540	33.665	73.094	1.00 34.76	AAAA
ATOM	950	N	ASN	121	45.889	33.495	70.887	1.00 20.56	AAAA
	951	CA	ASN	121	45.353	34.825	70.681	1.00 25.58	AAAA
MOTA					46.278	35.634	69.785	1.00 29.99	AAAA
MOTA	952	CB	ASN	121					AAAA
ATOM	953	CG	ASN	121	47.641	35.827	70.427	1.00 24.43	
ATOM '	954	OD1	ASN	121	48.396	34.874	70.588	1.00 54.63	AAAA
ATOM	955	ND2	ASN	121	47.944	37.045	70.817	1.00 41.69	AAAA
ATOM	956	C	ASN	121	43.941	34.759	70.135	1.00 18.85	AAAA
				121	43.421	33.675	69.899	1.00 24.77	AAAA
ATOM	957	0	ASN				69.991	1.00 19.55	AAAA
MOTA	958	N.	VAL	122	43.310	35.918			AAAA
ATOM	959	CA	VAL	122	41.936	35.994	69.499	1.00 22.90	
ATOM	960	CB	VAL	122	41.053	36.832	70.449	1.00 31.47	AAAA
MOTA	961	CG1	VAL	122	39.649	37.006	69.851	1.00 31.52	aaaa.
	962		VAL	122	40.986	36.154	71.810	1.00 32.50	AAAA
ATOM				122	41.953	36.632	68.130	1.00 16.87	AAAA
ATOM	963	C	VAL				67.938	1.00 24.08	AAAA
MOTA	964	0	VAL	122	42.518	37.710			AAAA
MOTA	965	N	ALA	123	41.321	35.983	67.159	1.00 18.67	
ATOM	966	CA	ALA	123	41.360	36.532	65.821	1.00 10.18	AAAA
ATOM	967	CB	ALA	123	42.346	35.743	64.990	1.00 19.04	AAAA
	968	c	ALA	123	40.000	36.551	65.131	1.00 13.72	AAAA
ATOM					39.108	35.761	65.439	1.00 20.78	AAAA
ATCM	969	0	ALA	123			64.180	1.00 12.92	AAAA
ATOM	970	N	PHE	124	39.871	37.457			AAAA
ATOM	971	CA	PHE	124	38.649	37.610	63.401	1.00 14.67	
ATCM	972	CB	PHE	124	37.904	38.878	63.85€	1.00 14.67	AAAA
ATOM	973	CG	PHE	124	36.660	39.209	63.049	1.00 20.28	AAAA
	974		PHE	124	35.811	38.209	62.587	1.00 18.56	AAAA
ATOM					36.286	40.545	62.843		AAAA
MOTA	975		PHE	124				1.00 18.75	AAAA
MOTA	976		PHE	124	34.609	38.532	61.937		
MOTA	977	CE2	PHE	124	35.072	40.875	62.193	1.00 20.18	AAAA
ATOM	978	CZ	PHE	124	34.242	39.867	61.744	1.00 21.57	AAAA
		c	PHE	124	39.016	37.712	61.930	1.00 22.60	AAAA
ATOM	979				39.823	38.558	61.535	1.00 19.22	AAAA
ATOM	980	0	PHE	124				1.00 19.22	AAAA
MOTA	981	N	ASN	125	38.449	36.820	61.126		
ATCM	982	CA	ASN	125	38.651	36.858	59.691	1.00 16.80	AAAA
ATOM	983	CB	ASN	125	39.122	35.507	59.150	1.00 15.71	AAAA
		CG	ASN	125	39.063	35.469	57.649	1.00 12.84	AAAA
ATCM	984				39.216	36.508	57.006		AAAA
ATOM	985		ASN	125					AAAA
ATCM	986	ND2	ASN	125	38.853	34.272	57.065		AAAA
ATCM	987	C	ASN	125	37.315	37.210	59.038		
ATOM	988	0	ASN	125	36.502	36.330	58.755		AAAA
ATOM	989	N	PRO	126	37.071	38.502	58.775	1.00 14.84	AAAA
	990	CD	PRO	126	37.908	39.684	59.052	1.00 18.10	AAAA
ATCM	770	CD		120	27.200				•

34/263 Figure 16-16

				25 01	1 38.910	58.156	1.00 17.33	నననగ
ATOM	991	CA PRO	126	35.81		58.177	1.00 16.32	AAAA
MOTA	992	CB PRO	126	35.91				
ATOM	993	CG . PRO	126	37.41	6 40.655	58.008	1.00 20.95	AAAA
	-		126	35.54	9 38.359	56.752	1.00 13.78	AAAA
MOTA				34.40		56.322	1.00 17.03	AAAA
ATOM	995	5. PRO	126				1.00 14.57	AAAA
ATOM -	996	N ALA	127	36.60		56.042		
		CA ALA	127	36.4€	37.443	54.691	1.00 17.37	AAAA
MOTA			127	37.81	6 37.540	53.930	1.00 14.48	AAAA
MOTA	998	CB ALA				54.702	1.00 19.77	AAAA
ATOM	999	C ALA	127	35.98				AAAA
ATOM	1000	O ALA	127	35.49	35.500	53.688	1.00 15.62	
			128	36.13	1 35.339	55.849	1.00 13.54	AAAA
MOTA	1001			35.72		55.971	1.00 13.53	AAAA
MOTA	1002	CA GLY	.128			56.101	1.00 14.49	AAAA
ATOM	1003	C GLY	128	34.23				
MOTA	1004	O GLY	128	33.41	14 34.585	56.017	1.00 15.65	AAAA
			129	33.88	33 32.420	56.314	1.00 13.35	AAAA
MOTA	1005					56.446	1.00 16.28	-AAAA
ATOM	1006	CA GLY	129	32.48	-		1.00 15.69	AAAA
MOTA	1007	C GLY	129	31.75		55.130		
	1008	O GLY	129	30.54	43 32.021	55.072	1.00 16.10	AAAA
ATOM			130	32.4	79 31.448	54.079	1.00 15.00	AAAA
ATOM	1009	N MET	_			52.757	1.00 13.35	AAAA
ATOM	1010	CA MET	130	31.8			1:00 12.20	AAAA
ATOM	1011	CB MET	130	32.9		51.689		
	1012	CG MET	130	33.6	80 32.573	51.731	1.00 17.03	AAAA
MOTA			130	34.8		50.425	1.00 15.41	AAAA
MOTA	1013	SD MET				49.073	1.00 46.82	AAAA
MOTA	1014	CE MET	130	33.7			1.00 12.49	AAAA
ATOM	1015	C MET	130	. 31.2		52.885		
	1016	O MET	130	31.7	85 28.789	52.297	1.00 19.54	AAAA
ATOM		•	131	30.1	88 29.695	53.617	1.00 16.24	AAAA
ATOM	1017	N HIS				54.014	1.00 13.80	AAAA
ATOM	1018	CA HIS	131	29.5			1.00 15.91	AAAA
ATOM	1019	CB HIS	131	28.7		55.316		
	1020	CG HIS	131	27.6	06 29.625	55.175	1.00 13.08	AAAA
MOTA			131	26.7		56.096	1.00 12.46	AAAA
ATOM	1021	CD2 HIS		27.2		53.976	1.00 22.48	AAAA
MOTA	1022	MD1 HIS	131				1.00 16.56	AAAA
ATOM	1023	CE1 HIS	131	26.1		54.166		
	1024	NE2 HIS	131	. 25.8	17 30.875	55.442	1.00 23.56	AAAA
MOTA			131	28.6	73 27.663	53.066	1.00 13.69	AAAA
MOTA	1025			28.1			1.00 17.21	AAAA
MOTA	1026	O HIS	131				1.00 14.51	AAAA
ATOM	1027	N HIS	132	28.5			1.00 14.31	
ATOM	1028	CA HIS	132	27.6	69 27.400		1.00 20.19	
			132	26.8	63 28.416	50.054	1.00 17.26	AAAA
ATOM	1029			25.7			1.00 16.85	AAAA
MOTA	1030	CG HIS	132				1.00 13.74	AAAA
MOTA	1031	CD2 HIS	132	24.7			1.00 24.80	AAAA
ATOM	1032	ND1 HIS	132	25.4			1.00 24.60	
	1033	CE1 HIS	132	24.4	29 30.700	51.486	1.00 12.68	AAAA
MOTA			132	23.9	80 29.576	52.010	1.00 28.65	AAAA
MOTA	1034	NE2 HIS		28.3			1.00 16.89	AAAA
MOTA	1035	C HIS	132				1.00 14.58	AAAA
MOTA	1036) HIS	132	27.7			1.00 14.30	AAAA
ATOM	1037	:1 ALA	133	29.6	69 26.580		1.00 16.79	
			133	30.3	38 25.680	48.740	1.00 13.76	AAAA
ATCM	1038			31.7			1.00 14.95	AAAA
ATOM	1039	CB ALA	133				1.00 18.80	AAAA
ATOM	1040	C ALA	133	30.4				AAAA
ATOM	1041	ALA C	133	30.5	557 23.939		1.00 16.86	
		N PHE	134	30.3	306 23.306	48.209	1.00 13.76	AAAA
MOTA	1042			30.3			1.00 19.77	AAAA
MOTA	1043	CA PHE	134				1.00 15.59	AAAA
MOTA	1044	CB PHE	134	29.3	311 21.132		1.00 13.33	AAAA
ATOM	1045	CG PHE	134	27.9	317 21.525	47.975	1.00 17.22	
		CD1 PHE	134	27.3	135 22.259	47.091	1.00 17.88	AAAA
MOTA	1046			27.			1.00 21.68	AAAA
MOTA	1047	CD2 PHE	134					AAAA
MOTA	1048	CE1 PHE	134	25.			1.00 23.07	AAAA
MOTA	1049	CE2 PHE	134	26.				
		CZ PHE	134	25.		3 48.696	1.00 19.71	AAAA
ATOM	1050		134	31.				AAAA
ATOM	1051	C PHE				-		AAAA
MOTA	1052	D PHE	134	32.				AAAA
ATOM	1053	N LYS	135	32.			1.00 16.37	AAAA
		CA LYS	135	33.	369 19.55	1 48.269	1.00 16.24	
ATOM	1054		135	33.			1.00 21.29	AAAA
MOTA	1055	CB LYS						AAAA
ATOM	1056	CG LYS	135	34.	640 17.30			•

MOTA	1057	CD	LYS	135	34.597	15.867	48.977	1.00 30.26	AAAA
MOTA	1058	CE	LYS	135	34.862	15.805	50.486	1.00 35.01	AAAA
MOTA	1059	NZ	LYS	135	36.304	16.023	50.895	1.00 20.61	AAAA
MOTA	1060	С	LYS	135	33.854	19.687	46.836	1.00 16.60	AAAA
ATOM	1061	0	LYS	135	35.020	20.020	46.584	1.00 17.24	AAAA
ATOM	1062	N	SER	136	32.944	19.483	45.893	1.00 18.01	AAAA
MOTA	1063	CA	SER	136	33.301	19.528	44.490	1.00 15.26	AAAA
MOTA	1064	CB	SER	136	33.339	18.094	43.940	1.00 18.07	AAAA
ATOM	1065	OG	SER	136	34.135	17.261	44.762	1.00 22.22	AAAA
MOTA	1066	С	SER	136	32.345	20.355	43.658	1.00 15.40	AAAA
ATOM	1067	0	SER	136	32.162	20.071	42.475	1.00 18.77	AAAA
ATOM	1068	N	ARG	137	31.754	21.401	44.237	1.00 19.71	AAAA
ATOM	1069	CA	ARG	137	30.805	22.216	43.482	1.00 17.29	AAAA .
MOTA	1070	CB	ARG	137	29.481	21.448	43.366	1.00 24.19	AAAA
MOTA	1071	CG	ARG	137	28.290	22.273	42.937	1.00 32.56	AAAA
ATOM	1072	CD	ARG	137	27.026	21.424	42.980	1.00 47.98	AAAA
MOTA	1073	NE	ARG	137	26.951	20.493	41.862	1.00 50.95	AAAA
MOTA	1074	CZ	ARG	137	26.392	20.781	40.691	1.00 50.38	AAAA
ATOM	1075	NHl	ARG	137	25.854	21.976	40.485	1.00 45.26	AAAA
MOTA	1076	NH2	ARG	137	26.375	19.876	39.722	1.00 55.31	AAAA
MOTA	1077	С	ARG	137	30.537	23.595	44.095	1.00 16.14	AAAA
MOTA	1078	0	ARG	137	30.439	23.711	45.308	1.00 16.88 1.00 18.07	AAAA AAAA
ATOM	1079	N	ALA	138	30.395	24.621	43.252		AAAA
ATOM	1080	CA	ALA	138	30.117	25.976	43.735 42.631	1.00 21.48 1.00 16.55	AAAA
MOTA	1081	CB	ALA	138	30.460	27.024 26.090	44.135	1.00 21.04	AAAA
ATOM	1082	C	ALA	138	28.642	25.339	43.641	1.00 21.04	AAAA
MOTA	1083	0	ALA.	138	27.798 28.321	27.019	45.029	1.00 13.83	AAAA
MOTA	1084	N	ASN	139	26.952	27.019	45.468	1.00 13.03	AAAA
MOTA	1085	CA	ASN	139	26.566	25.899	46.274	1.00 13.14	AAAA
ATOM	1086	CB	ASN	139	25.162	25.961	46.832	1.00 20.34	AAAA
MOTA	1087	CG	ASN	139 139	24.186	26.068	46.086	1.00 19.76	AAAA
MOTA	1088		ASN ASN	139	25.048	25.881		1.00 16.36	AAAA
MOTA	1089 1090	C	ASN	139	26.756	28.409	46.315	1.00 20.92	AAAA
MOTA MOTA	1091	0	ASN	139	27.603	28.738	47.148	1.00 16.81	AAAA
ATOM	1092	N	GLY	140	25.644	29.105	46.086	1.00 19.30	AAAA
ATOM	1093	CA	GLY	140	25.330	30.295	46.864	1.00 21.34	AAAA
ATOM	1094	c	GLY	140	26.393	31.378	46.888	1.00 20.19	AAAA
ATOM	1095	õ	GLY	140	26.653	31.968	47.943	1.00 18.77	AAAA
ATOM	1096	N	PHE	141	26.996	31.649	45.733	1.00 15.52	AAAA
ATOM	1097	CA	PHE	141	28.034	32.675	45.600	1.00 20.71	AAAA
ATOM	1098	CB	PHE	141	27.711	33.952	46.388	1.00 20.03	AAAA
ATOM	1099	CG	PHE	141	26.355	34.544	46.127	1.00 28.32	AAAA
ATOM	1100	CD1	PHE	141	25.855	35.526	46.997	1.00 24.25	AAAA
ATOM	1101	CD2	PHE	141	25.589	34.170	45.029	1.00 30.11	AAAA
ATOM	1102	CE1	PHE	141 .	24.628	36.116	46.775	1.00 25.91	AAAA AAAA
MOTA	1103		PHE	141	24.346	34.766	44.801	1.00 21.6:	AAAA
MOTA	1104	CZ	PHE	141	23.870	35.741	45.677	1.00 24.4 1.00 14.45	AAAA
MOTA	1105	C	PHE	141	29.357	32.188	46.158	1.00 14.45	AAAA
MOTA	1106	0	PHE	141	30.336	32.914	46.111		AAAA
ATOM	1107	N	CYS	142	29.389	30.982	46.716	1.00 10.77	AAAA
MOTA	1108	CA	CYS	142	30.629	30.466	47.285 48.659	1.00 17.71	AAAA
MOTA	1109	· CB	CYS	142	30.347	29.845	49.846	1.00 16.63	AAAA
MOTA	1110	SG	CYS	142	29.606 31.313	30.985 29.421	46.401	1.00 18.09	AAAA
MOTA	1111	C	CYS	142	30.647	28.527	45.856	1.00 16.60	AAAA
ATOM	1112	0	CYS	142	32.639	29.539	46.272	1.00 12.50	AAAA
MOTA	1113	N	TYR	143	33.429	28.603	45.478	1.00 15.32	AAAA
ATOM	1114	CA	TYR	143	34.333	29.322	44.473	1.00 13.07	AAAA
ATOM	1115	CB	TYR	143	33.614	30.338	43.612	1.00 15.80	AAAA
MOTA	1116	CG	TYR	143 143	33.396	31.636	44.071	1.00 15.48	AAAA
ATOM	1117		TYR	143	32.740	32.589	43.270	1.00 11.99	AAAA
MOTA	1118		TYR TYR		33.157	29.999	42.336	1.00 14.60	AAAA
ATCM	1119	CE2			32.501	30.935	41.532	1.00 10.74	AAAA
MOTA	1120	CZ	TYR	143	32.301	32.229	42.008		AAAA
ATOM	1121	OH	TYR		31.698	33.177	41.208		AAAA
ATOM	1122	On	7 + 7/	- 40			•		

ATOM	1123	С	TYR	143		.310	27.723	46.358	1.00 17.35	AAAA
MOTA	1124		TYR	143	34	.581	26.574	46.013	1.00 16.67	AAAA
ATOM	1125		ILE	144		.763	28.262	47.489	1.00 14.93	AAAA
ATOM	1126		ILE	144	35	.599	27.500	48.408	1.00 14.17	AAAA
ATOM	1127	_	ILE	144	37	.018	28.069	48.440	1.00 14.87	AAAA
	1128		ILE	144	37	.864	27.332	49.474	1.00 13.55	AAAA
MOTA	1129		ILE	144	37	.611	28.027	47.021	1.00 16.98	AAAA
ATOM	1130	CD1		144	39	.052	28.537	46.901	1.00 17.42	AAAA
MOTA		CDI	ILE	144		.959	27.615	49.788	1.00 17.22	AAAA
MOTA	1131		ILE	144		.606	28.716	50.220	1.00 14.72	AAAA
ATOM	1132	0.		145		.798	26.486	50.474	1.00 13.46	AAAA
ATOM	1133	И	ASN	145		.170	26.493	51.797	1.00 16.09	AAAA
ATOM	1134	CA	ASN	145		.401	25.178	51.988	1.00 14.50	AAAA
MOTA	1135	CB	ASN	145		.428	25.239	53.148	1.00 15.64	AAAA
MOTA	1136	CG	ASN	145		.800	25.587	54.263	1.00 14.97	AAAA
MOTA	1137	OD1		145		.170	24.916	52.882	1.00 16.74	AAAA
MOTA	1138	ND2		145		5.266	26.639	52.873	1.00 15.04	AAAA
ATOM	1139	С	ASN	145		5.812	25.637	53.338	1.00 15.72	AAAA
MOTA	1140.	0	ASN	146		5.599	27.865	53.282	1.00 12.34	AAAA
MOTA	1141	N	ASN	146		5.685	28.006	54.262	1.00 15.31	AAAA
MOTA	1142	CA	ASN	146		7.161	29.464	54.354	1.00 15.81	AAAA
MOTA	1143	CB	ASN			5.101	30.396	54.865	1.00 15.25	AAAA
MOTA	1144	CG	ASN	146		5.113	30.757	56.034	1.00 13.57	AAAA
ATOM	1145		ASN	146		5.156	30.775	53.996	1.00 10.85	AAAA
ATOM	1146		ASN	146		6.306	27.400	55.613	1.00 13.04	AAAA
MOTA	1147	C	ASN	146 146		7.160	26.865	56.314	1.00 14.76	AAAA
MOTA	1148	0	ASN	147		5.025	27.489	56.016	1.00 14.28	AAAA
MOTA	1149	N	PRO	147		3.817	28.175	55.515	1.00 7.62	AAAA
ATOM	1150	CD	PRO	147	_	4.750	26.843	57.307	1.00 13.51	AAAA
MOTA	1151	CA	PRO PRO	147		3.251	27.058	57.482	1.00 14.44	AAAA
ATOM	1152 1153	CB CG	PRO	147		3.056	28.436	56.827	1.00 12.32	AAAA
MOTA	1153	C	PRO	147		5.118	25.330	57.278	1.00 18.86	AAAA
MOTA	1154	0	PRO	147		5.678	24.796	58.251	1.00 16.24	AAAA
MOTA	1156	N	ALA	148		4.818	24.642	56.171	1.00 15.01	AAAA
ATOM	1157	CA	ALA	148	3	5.122	23.200	56.080	1.00 15.58	AAAA
MOTA MOTA	1158	CB	ALA	148	3	4.402	22.561	54.882	1.00 12.93	AAAA
ATOM	1159	c	ALA	148	3	6.624	22.956	55.984	1.00 14.94	AAAA
MOTA	1160	ō	ALA	148		7.138	21.999	56.560	1.00 14.69	AAAA AAAA
MOTA	1161	N	VAL	149		7.328	23.817	55.263	1.00 12.49	AAAA
MOTA	1162	CA	VAL	149		8.778	23.708	55.163	1.00 15.31 1.00 14.77	AAAA
ATOM	1163	CB	VAL	149		9.364	24.797	54.243	1.00 14.77	AAAA
ATOM	1164	CG1	VAL	149		0.899	24.870	54.369	1.00 12.50	AAAA
ATOM	1165	CG2	VAL	149		8.981	24.501	52.808	1.00 12.30	AAAA
ATOM	1166	С	AYL	149		9.323	23.887	56.572 57.028	1.00 20.14	AAAA
ATOM	1167	0	VAL	149		0.172	23.109	57.020	1.00 15.45	AAAA
ATOM	1168	Ŋ	GLY	50	3	8.815	24.899	58.622	1.00 20.96	AAAA
ATCM	1169	CA	GLY	_50		9.284	25.168	59.621	1.00 24.16	AAAA
ATOM	1170	C	GLY	₋ 50		9.030	24.053 23.738		1.00 19.50	AAAA
ATOM	1171	0	GLY	150		9.888				AAAA
ATCM	1172	11	ILE	151		7.842				AAAA
MOTA	1173	CA	ILE	151		37.490				AAAA
MCTA	1174	CB	ILE	151		85.992 85.667				AAAA
ATOM	1175	CG2		151		35.007 35.180				· AAAA
MOTA	1176			151		33.686				AAAA
MOTA	1177	CDI		151		38.352				AAAA
MOTA	1178		ILE	151		38.796				aaaa
ATOM	1179		ILE	151		38.599	20.861			AAAA
ATCM	1180		GLU	152		39.434				AAAA
ATOM	1181		GLU	152		39.362			1.00 20.21	AAAA
ATOM	1182		GLU	152 152		38.033			1.00 22.16	AAAA
ATOM	1183		GLU	152		37.838	17.430		1.00 26.94	AAAA
ATCM	1184			152		36.720			1.00 25.03	AAAA
ATOM	1185		1 GLU	152		38.800			3 1.00 24.95	AAAA
ATOM	1186	_	2 GLU GLU	152		40.865			1.00 16.85	AAAA
ATOM	1187		GLU	152		41.629				AAAA
ATCM	1188	, 0	010	*~*			_	-		•

37/263 Figure 16-19

	1100	NT	TYR	153	41	. 228	21.290	58.931	1.00 14.74	AAAA
ATOM	1189	N		153		.574	21.672	59.350	1.00 17.71	AAAA
ATOM	1190	CA	TYR				23.193	59.179	1.00 13.26	AAAA
MOTA	1191	CB	TYR	153		.757		-		AAAA
MOTA	1192	CG	TYR	153		1.059	23.727	59.729	1.00 16.36	
MOTA	1193	CD1	TYR	153	45	5.234	23.726	58.967	1.00 18.41	AAAA
ATOM	1194		TYR	153	46	5.438	24.219	59.511	1.00 21.03	AAAA
				153		.115	24.220	61.028	1.00 21.16	AAAA
ATOM	1195	CD2				5.288	24.705	61.570	1.00 19.76	AAAA
MOTA	1196		TYR	153				60.824	1.00 25.97	AAAA
MOTA	1197	CZ	TYR	153		5.440	24.711			AAAA
ATOM	1198	OH	TYR	153		7.571	25.235	61.410	1.00 23.15	
MOTA	1199	C	TYR	153 -	42	2.712	21.274	60.828	1.00 20.00	AAAA
	1200	ō	TYR	153	4.7	3.722	20.698	61.247	1.00 19.61	AAAA
ATOM			LEU	154		1.683	21.569	61.616	1.00 17.78	AAAA
MOTA	1201	N				1.698	21.239	63.042	1.00 17.26	AAAA
ATOM	1202	CA	LEU	154			21.913	63.744	1.00 20.44	AAAA
MOTA	1203	CB	LEU	154		0.511			1.00 20.44	AAAA
ATOM	1204	CG	LEU	154		0.636	23.434	63.942		
MOTA	1205	CD1	LEU	154	3 9	9.277	24.046	64.309	1.00 22.48	AAAA
MOTA	1206	CD2		154	4	1.692	23.709	65.044	1.00 20.84	AAAA
	1207	C	LEU	154	4	1.669	19.715	63.262	1.00 19.69	AAAA
MOTA				154		2.357	19.191	64.149	1.00 22.91	AAAA
ATOM	1208	0	LEU			0.878	18.996	62.469	1.00 20.88	AAAA
ATOM	1209	N	ARG	155				62.622	1.00 22.64	AAAA
MOTA	1210	CA	ARG	155		0.840	17.539			AAAA
MOTA	1211	CB	ARG	155		9.829	16.905	61.652	1.00 25.69	
ATOM	1212	CG	ARG	155	3 '	8.384	17.394	61.893	1.00 27.64	AAAA
	1213	CD	ARG	155	31	7.382	16.834	60.892	1.00 25.67	AAAA
MOTA	1214	NE	ARG	155		6.931	15.497	61.246	1.00 30.88	AAAA
MOTA				155		6.135	14.753	60.488	1.00 36.28	AAAA.
MOTA	1215	CZ	ARG			5.705	15.218	59.318	1.00 26.96	AAAA
MOTA	1216		ARG	155				60.923	1.00 27.33	AAAA
MOTA	1217	NH2	ARG	155		5.737	13.562			AAAA
MOTA	1218	С	ARG	155		2.235	16.966	62.390	1.00 28.00	
MOTA	1219	0	ARG -	155	4	2.674	16.070	63.119	1.00 28.05	AAAA
ATOM	1220	N	LYS	156	4	2.949	17.486	61.395	1.00 23.53	AAAA
	1221	CA	LYS	156		4.290	16.977	61.128	1.00 26.79	AAAA
MOTA				156		4.854	17.558	59.824	1.00 26.01	AAAA
ATOM	1222	CB	LYS			6.213	16.955	59.444	1.00 29.70	AAAA
MOTA	1223	CG	LYS	156			17.308	58.035	1.00 28.77	AAAA
ATOM	1224	CD	LYS	156		6.632			1.00 39.79	AAAA
ATCM	1225	CE	LYS	156		5.685	16.692	57.005		AAAA
ATOM	1226	NZ	LYS	156		5.671	15.192	57.058	1.00 36.33	AAAA
ATCM	1227	С	LYS	156	4	5.233	17.260	62.299	1.00 26.40	
MOTA	1228	0	LYS	156	4	6.188	16.511	62.529	1.00 26.19	AAAA
MOTA	1229	N	LYS	157	4	4.960	18.337	63.032	1.00 22.50	AAAA
	1230	CA	LYS	157		5.757	18.709	64.204	1.00 21.12	AAAA
ATOM				157	_	5.535	20.181	64.591	1.00 28.95	AAAA.
ATOM	1231	CB	LYS			6.160	21.215	63.652	1.00 25.94	AAAA
ATCM	1232	CG	LYS	157			21.067	63.575	1.00 35.16	AAAA
ATOM	1233	CD	LYS	157		7.669		62.627	1.00 39.24	AAAA
ATCM	1234	CE	LYS	157		8.281	22.099			AAAA
ATCM	1235	NZ	LYS	157		19.742	21.869	62.406	1.00 40.01	AAAA
ATOM	1236	С	LYS	157	4	15.421			1.00 22.98	
ATCM	1237	0	LYS	157	4	16.085	17.903	66.444	1.00 27.77	AAAA
	1238	N	GLY	158		4.392		65.284	1.00 26.49	AAAA
АТСМ				158		4.023			1.00 24.82	AAAA
ATOM:	1239	CA	GLY			12.771			1.00 33.13	AAAA
ATCM	1240	С	GLY	158						AAAA
ATOM	1241	0	GLY	158		12.421			1.00 27.22	AAAA
ATCM	1242	N	PHE	159		12.085			1.00 27.47	AAAA
ATOM	1243	CA	PHE	159	4	10.866	17.861			
ATOM	1244	CB	PHE	159		40.410	19.285	67.186	1.00 27.53	AAAA
		CG	PHE	159		41.264	20.343	67.827	1.00 27.26	AAAA
ATOM	1245			159		42.439			1.00 28.12	AAAA
ATOM	1246		PHE			40.926				AAAA
ATOM	1247		PHE	159						AAAA
ATOM	1248	CE1	PHE	159		43.264				AAAA
ATCM	1249	CE	PHE	159		41.738				AAAA
ATCM	1250	CZ	PHE	159	- 4	42.907				
	1251	Č	PHE	159		39.792			1.00 28.02	AAAA
ATOM	1251	0	PHE	159		39.639			1.00 21.14	AAAA
ATCM				160		39.056		68.110		AAAA
ATCM	1253	N	LYS	160		38.011				AAAA
ATOM	1254	CA	LYS	100	•	د د د . ب ر		-		•
•			•							

38/263 Figure 16-20

ATOM 1310 CA ASP 166 26.303 29.773 61.00 12.31 AAAI ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAI ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAI ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAI ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAAI ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAAI ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAAI ATOM 1317 N LEU 167 25.647 32.310 62.407 1.00 14.02 AAAI ATOM 1317 N LEU 167 25.647 32.993 62.665 1.00 12.05 AAAI ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAI ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAI ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 14.61											
ATOM 1256 CC LVS 160 39.275 13.424 68.157 1.00 43.16 AAAA ATOM 1257 CD LVS 160 49.222 12.477 69.141 1.00 54.05 AAAA ATOM 1258 EL VS 160 39.236 11.349 69.577 1.00 62.87 AAAA ATOM 1258 CL VS 160 39.236 11.349 69.577 1.00 62.87 AAAA ATOM 1259 M2 LVS 160 38.154 11.890 70.476 1.00 68.11 AAAA ATOM 1259 CL VS 160 36.599 15.822 68.255 1.00 21.12 AAAA ATOM 1260 C LVS 160 36.599 15.822 68.255 1.00 21.12 AAAA ATOM 1262 N ARG 161 36.476 17.042 68.733 1.00 19.68 AAAA ATOM 1262 C A ARG 161 36.476 17.042 68.733 1.00 19.68 AAAA ATOM 1265 CG ARG 161 34.865 17.467 70.572 1.00 26.02 AAAA ATOM 1266 CD ARG 161 34.865 17.467 70.572 1.00 26.02 AAAA ATOM 1266 CD ARG 161 34.233 16.025 72.523 1.00 30.38 AAAA ATOM 1268 C2 ARG 161 34.233 16.025 72.523 1.00 30.38 AAAA ATOM 1268 C2 ARG 161 34.233 16.025 72.523 1.00 30.38 AAAA ATOM 1268 C2 ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1270 NH ARG 161 36.724 15.094 73.485 1.00 39.49 AAAA ATOM 1270 NH ARG 161 36.724 15.094 73.485 1.00 39.49 AAAA ATOM 1270 NH ARG 161 36.724 15.094 73.883 1.00 49.49 AAAA ATOM 1271 C ARG 161 34.53.19 19.322 69.468 1.00 18.98 AAAA ATOM 1273 N TLE 162 34.744 20.700 66.987 1.00 18.98 AAAA ATOM 1271 C ARG 161 34.54.53 19.322 69.468 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.522 19.700 66.987 1.00 17.81 AAAA ATOM 1273 N TLE 162 34.744 20.700 66.987 1.00 17.81 AAAA ATOM 1276 CC LIE 162 35.522 20.717 65.626 1.00 18.33 AAAA ATOM 1277 C LIE 162 37.722 19.852 64.670 1.00 22.55 7AAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 11.65 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 18.83 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 18.73 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 18.75 AAAA ATOM 1278 CD ILE 162 33.316 21.184 66.724 1.00 18.75 AAAA ATOM 1278 CD ILE 163 33.316 21.184 66.724 1.00 18.65 AAAA ATOM 1279 CD ILE 163 33.316 21.184 66.724 1.00 18.65 AAAA ATOM 1279 CD ILE 163 33.316 21.184 66.724 1.00 18.65 AAAA ATOM 1279 CD ILE 163 3						2	0 350	14 098	68 668	1.00 22.86	Anna
ATOM 1256 CG LYS 160 39.625 13.424 86.157 CD LYS 604 ADAM ATOM 1258 CE LYS 160 39.236 11.343 89.577 10.0 62.87 ADAM ATOM 1258 CE LYS 160 39.236 11.343 89.577 10.0 62.87 ADAM ATOM 1260 C LYS 160 36.599 15.822 68.251 1.00 19.43 ADAM ATOM 1261 0 LYS 160 36.599 15.822 68.251 1.00 19.43 ADAM ATOM 1261 0 LYS 160 36.599 15.822 68.251 1.00 19.45 ADAM ATOM 1262 N ARG 161 36.476 17.042 68.251 1.00 19.45 ADAM ATOM 1262 N ARG 161 36.476 17.042 68.251 1.00 19.45 ADAM ATOM 1262 C ARG 161 31.641 17.042 68.551 1.00 19.45 ADAM ATOM 1264 CB ARG 161 31.641 17.042 68.551 1.00 19.45 ADAM ATOM 1265 CG ARG 161 34.655 17.00 17.00 10.0 28.47 ADAM ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 ADAM ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 ADAM ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 ADAM ATOM 1268 CZ ARG 161 36.724 15.094 73.489 1.00 31.49 ADAM ATOM 1268 CZ ARG 161 36.724 15.094 73.489 1.00 31.49 ADAM ATOM 1268 CZ ARG 161 36.724 15.094 73.489 1.00 31.49 ADAM ATOM 1270 C ARG 161 35.571 19.060 68.680 1.00 18.98 ADAM ATOM 1271 C ARG 161 35.571 19.9060 68.680 1.00 18.98 ADAM ATOM 1271 C ARG 161 35.571 19.9060 68.680 1.00 18.98 ADAM ATOM 1271 C ARG 161 35.572 19.32 67.458 1.00 19.82 ADAM ATOM 1271 C CG LIE 162 35.522 19.932 69.460 1.00 18.98 ADAM ATOM 1271 C CG LIE 162 35.522 19.932 69.460 1.00 18.33 ADAM ATOM 1270 C CG LIE 162 35.522 19.00 10.00 18.93 ADAM ATOM 1270 C CG LIE 162 35.522 19.00 10.00 18.33 ADAM ATOM 1270 C CG LIE 162 35.522 19.00 66.880 1.00 19.82 ADAM ATOM 1270 C CG LIE 162 35.522 20.717 65.626 1.00 18.33 ADAM ATOM 1270 C CG LIE 162 35.522 20.717 65.626 1.00 18.33 ADAM ATOM 1270 C CG LIE 162 33.316 21.184 66.724 1.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.184 66.724 1.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.184 66.724 1.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.184 66.724 1.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.184 66.724 1.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.00 19.99 ADAM ATOM 1270 C CG LIE 162 33.316 21.00 19.99 ADAM ATOM 1270 C CG LIE 163 31.50 29.50 29.50	ATOM	1255	CB :	LYS	100					1 00 43 16	
ATOM 1257 CD LYS 160 40.222 12.417 69.141 1.00 54.05 AAAA ATOM 1259 NZ LYS 160 38.154 11.890 70.446 1.00 68.17 AAAA ATOM 1260 C LYS 160 38.154 11.890 70.446 1.00 68.17 AAAA ATOM 1261 O LYS 160 38.154 11.890 70.446 1.00 68.17 AAAA ATOM 1262 N ARG 161 35.664 17.594 68.051 1.00 22.43 AAAA ATOM 1263 CA ARG 161 35.164 17.594 69.073 1.00 20.84 AAAA ATOM 1263 CA ARG 161 35.164 17.594 69.073 1.00 20.84 AAAA ATOM 1265 CG ARG 161 35.164 17.594 69.073 1.00 20.84 AAAA ATOM 1266 CD ARG 161 35.164 17.594 69.073 1.00 20.84 AAAA ATOM 1266 CD ARG 161 35.088 16.734 73.445 1.00 32.98 AAAA ATOM 1267 NE ARG 161 35.088 16.734 73.445 1.00 32.98 AAAA ATOM 1267 NE ARG 161 35.088 16.734 73.445 1.00 32.98 AAAA ATOM 1267 NE ARG 161 35.098 16.734 73.445 1.00 32.98 AAAA ATOM 1267 NE ARG 161 35.098 16.734 73.445 1.00 32.98 AAAA ATOM 1267 NE ARG 161 35.171 19.00 68.10 1.00 18.54 ATOM 1270 NN2 ARG 161 35.171 19.00 68.10 1.00 18.94 AAAA ATOM 1270 NN2 ARG 161 35.171 19.00 68.10 1.00 18.94 AAAA ATOM 1271 C ARG 161 35.171 19.00 68.00 1.00 18.94 AAAA ATOM 1271 C ARG 161 35.171 19.00 68.00 1.00 18.94 AAAA ATOM 1271 C ARG 161 35.791 19.00 68.00 1.00 18.94 AAAA ATOM 1271 C ARG 161 35.791 19.00 68.00 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.791 19.00 68.00 1.00 18.98 AAAA ATOM 1273 N ILE 162 34.742 12.100 10.00 18.98 AAAA ATOM 1274 C A ILE 162 35.522 20.170 65.042 1.00 19.82 AAAA ATOM 1275 C B ILE 162 35.522 20.170 65.042 1.00 11.65 AAAA ATOM 1276 C GC ILE 162 35.522 20.170 65.042 1.00 11.65 AAAA ATOM 1278 C GI ILE 162 37.722 19.852 64.670 1.00 17.99 AAAA ATOM 1278 C G ILE 162 37.722 19.852 64.670 1.00 17.99 AAAA ATOM 1278 C B ILE 162 37.722 19.852 64.670 1.00 17.99 AAAA ATOM 1278 C B ILE 162 37.722 19.852 64.670 1.00 17.99 AAAA ATOM 1278 C B ILE 163 32.500 20.99 66.126 1.00 11.71 AAAA ATOM 1278 C B ILE 163 32.500 20.99 66.126 1.00 11.71 AAAA ATOM 1279 C LEU 163 32.500 20.99 66.126 1.00 11.71 AAAA ATOM 1280 C B ILE 165 27.959 28.856 64.651 1.00 11.71 AAAA ATOM 1291 C B ITR 164 30.752 21.778 7.78 56.44 1.00 11.55 AAAA ATOM 1292 C C TRR 164 29.279 25.873 6		1256	CG :	LYS	160	3	9.625	13.424	68.15/		
ATOM 1258 CC LYS 160 39.256 11.343 69.577 1.00 62.87 AAAA ATOM 1259 RZ LYS 160 38.154 11.890 70.464 1.00 66.81.11 AAAA ATOM 1260 C LYS 160 36.599 15.822 68.225 1.00 21.12 AAAA ATOM 1261 C LYS 160 36.599 15.822 68.225 1.00 21.12 AAAA ATOM 1261 C LYS 160 36.599 15.822 68.225 1.00 21.12 AAAA ATOM 1262 RA ARG 161 36.476 17.042 68.733 1.00 19.68 AAAA ATOM 1263 C ARG 161 34.855 17.467 70.572 1.00 26.02 AAAA ATOM 1263 C ARG 161 34.855 17.467 70.572 1.00 26.02 AAAA ATOM 1265 C ARG 161 34.213 16.035 772.523 1.00 30.38 AAAA ATOM 1265 C ARG 161 34.213 16.035 772.523 1.00 30.38 AAAA ATOM 1265 C ARG 161 34.213 16.035 772.523 1.00 30.38 AAAA ATOM 1265 C ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1265 C ARG 161 36.724 15.094 73.489 1.00 31.49 AAAA ATOM 1269 RH ARG 161 36.724 15.094 73.489 1.00 31.49 AAAA ATOM 1269 C ARG 161 35.511 19.060 68.680 1.00 18.98 AAAA ATOM 1270 RH2 ARG 161 35.512 19.906 68.60 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.512 19.906 68.60 1.00 18.98 AAAA ATOM 1275 C B ILE 162 35.542 20.117 65.627 1.00 17.81 AAAA ATOM 1277 C C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C T LE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.81 AAAA ATOM 1279 C ILE 162 35.542 20.107 65.627 1.00 17.91 AAAA ATOM 1280 C ILE 163 31.652 17.91 8.95 64.670 1.00 17.91 AAAA ATOM 1280 C ILE 163 31.652 17.91 8.95 64.670 1.00 17.91 AAAA ATOM 1280 C ILE 163 31.652 17.92 8.95 64.670 1.00 18.40 AAAA ATOM 1280 C ILE 163 30.60 AAAA ATOM 1280 C ILE 165 32.520 20.492 66.126 1.00 18.03 AAAA ATOM 1280 C ILE 165 32.520 20.492 66.126 1.00 18.0				_		A	0 222	12 417	69.141	1.00 54.05	AAAA
ATOM 1259 NZ LIS 160 36.599 15.822 68.25 1.00 21.12 AAAA ATOM 1260 C LYS 160 36.599 15.822 68.25 1.00 21.12 AAAA ATOM 1261 O LYS 160 36.599 15.822 68.051 1.00 22.43 AAAA ATOM 1262 N ARG 161 36.476 17.042 68.733 1.00 19.68 AATOM 1263 CA ARG 161 36.476 17.042 68.733 1.00 19.68 AATOM 1264 CS ARG 161 34.855 17.042 68.733 1.00 126.02 AAAA ATOM 1265 CG ARG 161 34.855 17.467 07.572 1.00 26.02 AAAA ATOM 1265 CG ARG 161 34.855 17.467 07.572 1.00 28.47 AAAA ATOM 1265 CG ARG 161 34.855 17.467 07.572 1.00 28.47 AAAA ATOM 1265 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AATOM 1265 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AATOM 1268 CZ ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA ATOM 1268 CZ ARG 161 36.272 15.094 73.489 1.00 31.49 AAAA ATOM 1270 NIV2 ARG 161 36.272 15.094 73.489 1.00 31.49 AAAA ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 28.57 AAAA ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 23.57 AAAA ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 18.98 AAAA ATOM 1273 N ILE 162 35.542 20.717 65.626 1.00 17.81 AAAA ATOM 1276 CG ILE 162 35.542 20.717 65.626 1.00 17.81 AAAA ATOM 1277 CG ILE 162 35.542 20.717 65.626 1.00 18.33 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 33.562 20.717 65.626 1.00 18.33 AAAA ATOM 1278 CG ILE 162 33.162 21.106 66.724 1.00 17.91 AAAA ATOM 1278 CG ILE 162 33.542 21.10 65.042 1.00 17.81 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 33.542 21.10 65.042 1.00 17.81 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 36.937 20.00 65.895 1.00 18.15 AAAA ATOM 1278 CG ILE 162 36.5426 64.261 1.00 18.495 AAAA ATOM 1280 C ILE 163 31.755 22.902 67.001 10.00 13.65 AAAA ATOM 1280 C ILE 163 31.755 22.902 67.001 10.00 13.65 AAAA ATOM 1280 C ILE 163 31.757 28.896 66.126 1.00 18.93 AAAAA ATOM 1290 C TYR 164 30.7582 AAAA ATOM 1291 C B TYR 1	ATOM	1257	CD .	LYS							3323
ADDITION 1259 NZ	MOTA	1258	CE	LYS	160	3	9.236	11.343			
ATOM 1260 C LYS 160 36.599 15.822 68.225 1.00 21.12 AAAA ATOM 1261 0 LYS 160 35.632 15.072 68.051 1.00 22.43 AAAA ATOM 1261 0 LYS 160 35.632 15.072 68.051 1.00 22.43 AAAA ATOM 1262 N ARG 161 36.476 17.594 69.073 1.00 20.84 AAAA ATOM 1263 CS ARG 161 34.655 17.467 70.572 1.00 26.02 AAAA ATOM 1263 CS ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1266 CD ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1268 CZ ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1269 NH1 ARG 161 36.724 15.094 73.445 1.00 30.38 AAAA ATOM 1269 NH1 ARG 161 36.724 15.094 73.489 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 35.171 19.060 68.680 1.00 31.49 AAAA ATOM 1271 C ARG 161 35.171 19.060 68.680 1.00 23.57 AAAA ATOM 1272 O ARG 161 35.572 19.932 69.460 1.00 23.57 AAAA ATOM 1273 N LE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1275 CB LLE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1275 CB LLE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1276 CCC LLE 162 35.522 19.932 69.460 1.00 23.57 AAAA ATOM 1278 CD LLE 162 35.522 19.932 69.460 1.00 17.81 AAAA ATOM 1278 CD LLE 162 35.522 19.932 69.460 1.00 17.81 AAAA ATOM 1278 CD LLE 162 35.522 10.717 65.625 1.00 17.81 AAAA ATOM 1278 CD LLE 162 35.522 20.717 65.625 1.00 17.81 AAAA ATOM 1278 CD LLE 162 37.722 19.852 64.670 1.00 17.81 AAAA ATOM 1288 CD LLE 162 37.722 19.852 64.670 1.00 17.81 AAAA ATOM 1288 CD LLE 162 32.520 20.717 65.025 1.00 13.65 AAAAA ATOM 1288 CD LLE 163 32.542 22.110 65.042 1.00 13.65 AAAAA ATOM 1280 O LLE 162 32.520 20.717 65.625 1.00 19.82 AAAA ATOM 1280 CD LLE 163 33.162 1.384 66.724 1.00 13.65 AAAAA ATOM 1280 CD LLE 163 32.540 64.670 1.00 12.073 AAAA ATOM 1280 CD LLE 163 32.540 64.670 1.00 12.073 AAAA ATOM 1280 CD LLE 163 32.966 62.274 67.21 1.00 18.45 AAAA ATOM 1286 CD LLE 163 32.966 62.274 67.21 1.00 18.65 AAAA ATOM 1287 C LEU 163 31.657 28.686 62.866 1.00 18.75 AAAA ATOM 1288 CD LLE 163 32.966 62.274 66.125 1.00 19.99 AAAAA ATOM 1288 CD LEU 163 32.966 66.088 1.00 13.679 AAAA ATOM 1289 C TYR 164 30.752 2.778 67.376						3	8 .154	11.890	70.446		AAAA
ATOM 1261 0 LUS 160 35.632 15.672 68.051 1.00 22.43 AAAA ATOM 1262 N ARG 161 36.476 17.042 68.733 1.00 19.68 AAAA ATOM 1263 CA ARG 161 35.164 17.594 69.073 1.00 20.84 AAAA ATOM 1264 C3 ARG 161 34.855 17.467 70.572 1.00 26.02 AAAA ATOM 1265 CG ARG 161 34.855 17.467 70.572 1.00 28.47 AAAA ATOM 1265 CG ARG 161 34.253 16.025 72.523 1.00 30.38 AAAA ATOM 1265 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA ATOM 1266 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA ATOM 1267 NE ARG 161 36.272 16.278 73.485 1.00 32.99 AAAA ATOM 1268 CJ ARG 161 36.272 15.094 73.489 1.00 31.49 AAAA ATOM 1268 NH1 ARG 161 36.272 15.094 73.489 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 35.552 19.932 69.460 1.00 23.57 ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 23.57 AATOM 1272 C ARG 161 35.552 20.717 65.626 1.00 18.98 AAAA ATOM 1273 C ARG 161 35.552 20.717 65.626 1.00 17.81 ATOM 1275 CB ILE 162 35.542 20.717 65.626 1.00 17.81 ATOM 1276 CGI ILE 162 35.542 20.717 65.626 1.00 18.33 AAAA ATOM 1277 CGI ILE 162 35.542 20.717 65.626 1.00 18.33 AAAA ATOM 1278 CD ILE 162 36.937 20.000 65.895 1.00 18.15 AAAA ATOM 1278 CD ILE 162 33.7622 1.10 65.042 1.00 17.81 ATOM 1278 CD ILE 162 33.762 1.19 852 64.670 1.00 22.52 AAAA ATOM 1278 CD ILE 162 33.762 1.19 852 64.670 1.00 22.52 AAAA ATOM 1280 N LEU 163 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1280 N LEU 163 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1280 N LEU 163 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1280 C LEU 163 31.653 27.926 60.126 1.00 18.45 AAAA ATOM 1280 C LEU 163 31.653 27.926 60.126 1.00 18.45 AAAA ATOM 1280 C LEU 163 31.653 27.996 80.4751 69.870 1.00 18.45 AAAA ATOM 1280 C LEU 163 31.653 27.996 80.4751 69.870 1.00 18.45 AAAA ATOM 1280 C LEU 163 31.653 27.996 80.4751 69.870 1.00 18.65 AAAA ATOM 1280 C LEU 163 31.653 27.996 80.4751 69.870 1.00 18.65 AAAA ATOM 1280 C LEU 163 31.653 27.998 80.60 1.00 18.65 AAAA ATOM 1280 C LEU 163 31.653 27.998 80.60 1.00 18.65 AAAA ATOM 1280 C LEU 163 31.653 27.998 80.60 1.00 18.65 AAAA ATOM 1290 C TYR 164 30.598 80.60 80.799 1.00 15.66 AAAA ATOM 1291 C B TYR 164 3	ATOM								60 225	1 00 21 12	SAAA
NOTICE N	ATOM-	1260	C :	LYS	160						
ATOM 1262 N ARG 161 36.476 17.042 68.733 1.00 19.68 AAAA ATOM 1263 CA ARG 161 35.164 17.594 69.073 1.00 20.84 ATOM 1264 CB ARG 161 34.475 16.031 71.080 1.00 28.47 AATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 30.38 AAAA ATOM 1268 CZ ARG 161 35.098 16.734 73.445 10.03 30.98 AATOM 1268 CZ ARG 161 36.724 15.094 73.445 10.03 30.99 AAAA ATOM 1268 CZ ARG 161 36.724 15.094 73.489 1.00 31.49 AATOM 1278 NH1 ARG 161 37.003 17.014 74.712 1.00 38.54 AAAA ATOM 1279 NH1 ARG 161 37.003 17.014 74.712 1.00 38.54 AAAA ATOM 1271 N 126 161 35.517 19.060 68.680 1.00 18.98 AAAA ATOM 1271 N 126 162 34.743 19.332 67.458 1.00 19.82 AATOM 1271 N 126 162 34.743 19.332 67.458 1.00 19.82 AATOM 1271 C				TVC	160	3	5.632	15.C72	68.051		
ATOM 1263 CA ARG 161 34.855 17.467 70.572 1.00 20.84 AAAA. ATOM 1264 CB ARG 161 34.855 17.467 70.572 1.00 26.02 AAAA. ATOM 1265 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA. ATOM 1265 CG ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA. ATOM 1266 CD ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA. ATOM 1267 NE ARG 161 35.988 16.734 73.445 1.00 32.99 AAAA. ATOM 1268 CZ ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA. ATOM 1270 NN12 ARG 161 36.724 16.278 73.883 1.00 31.49 AAAA. ATOM 1271 C ARG 161 37.003 17.014 74.712 1.00 31.49 AAAA. ATOM 1272 O ARG 161 35.571 19.060 68.680 1.00 18.98 AAAA. ATOM 1273 N ILE 162 34.734 19.932 69.460 1.00 23.57 AAAA. ATOM 1273 N ILE 162 34.734 19.332 67.458 1.00 19.82 AAAA. ATOM 1275 CB ILE 162 34.734 19.332 67.458 1.00 19.82 AAAA. ATOM 1275 CG ILE 162 35.522 20.177 65.65.895 1.00 18.33 AAAA. ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 18.33 AAAA. ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 18.33 AAAA. ATOM 1279 C ILE 162 37.722 19.852 64.670 1.00 18.34 AAAA. ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 18.35 AAAA. ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 18.35 AAAA. ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 18.35 AAAA. ATOM 1280 O ILE 162 37.722 19.852 64.670 1.00 18.35 AAAA. ATOM 1280 CDI ILE 162 37.722 19.852 64.670 1.00 18.35 AAAA. ATOM 1280 CDI ILE 162 32.520 20.492 66.126 1.00 17.99 AAAA. ATOM 1280 CDI ILE 162 32.520 20.492 66.126 1.00 17.99 AAAA. ATOM 1280 CDI ILE 163 31.151 23.376 68.463 1.00 19.99 AAAA. ATOM 1280 CDI ILE 163 31.151 23.376 68.463 1.00 19.99 AAAA. ATOM 1280 CDI ILE 163 31.151 23.376 68.463 1.00 19.99 AAAA. ATOM 1280 CDI ILE 163 31.152 3.756 68.61 20.00 17.71 AAAA. ATOM 1280 CDI ILE 163 31.152 3.756 68.61 20.00 17.72 AAAA. ATOM 1280 CDI ILE 163 32.607 24.889 66.188 1.00 18.49 AAAA. ATOM 1280 CDI ILE 163 32.607 24.899 66.188 1.00 18.49 AAAA. ATOM 1290 CA TYR 164 30.656 25.246 66.256 1.00 17.99 AAAAA. ATOM 1290 CA TYR 164 30.656 25.246 66.256 1.00 10.849 AAAA. ATOM 1290 CA TYR 164 30.559 28.699 66.188 1.00 18.49 AAAA. ATOM 1290 CA TYR 164 29.87	ATOM								68 733	1 00 19.68	AAAA
NAME	MOTA	1262	N .	ARG	161						
ATOM 1264 CB ARG 161 34.865 17.467 70.572 1.00 26.02 AAAA ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1266 CD ARG 161 34.213 16.025 72.523 1.00 30.38 AAAA ATOM 1266 CZ ARG 161 35.098 16.734 73.485 1.00 31.49 AAAA ATOM 1268 CZ ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1269 NH1 ARG 161 36.724 15.094 74.712 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 36.727 19.060 66.680 1.00 13.57 AAAA ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 13.57 AAAA ATOM 1272 O ARG 161 35.552 19.932 69.460 1.00 13.57 AAAA ATOM 1273 O ALE 162 34.744 20.700 66.947 1.00 17.81 AAAA ATOM 1274 CB LLE 162 34.744 20.700 66.947 1.00 17.81 AAAA ATOM 1275 CG2 LLE 162 35.522 20.717 65.626 1.00 18.365 ATOM 1276 CG2 LLE 162 36.937 20.200 65.895 1.00 13.65 AAAA ATOM 1278 C DL LLE 162 33.552 22.110 65.042 1.00 13.65 AAAA ATOM 1278 C DL LLE 162 33.552 22.110 65.042 1.00 13.65 AAAA ATOM 1278 C DL LLE 162 33.552 22.110 65.042 1.00 13.65 AAAA ATOM 1278 C DL LLE 162 33.554 22.110 65.042 1.00 17.99 AAAA ATOM 1278 C DL LLE 162 33.316 21.184 66.724 1.00 17.99 AAAA ATOM 1278 C DL LLE 162 33.316 21.184 66.724 1.00 17.99 AAAA ATOM 1281 C LLEU 163 32.990 22.374 66.126 1.00 17.99 AAAA ATOM 1282 C LLEU 163 31.653 22.902 67.061 1.00 20.73 AAAA ATOM 1283 C LLEU 163 31.653 22.902 67.061 1.00 10.999 AAAA ATOM 1284 C LLEU 163 31.1653 22.902 67.061 1.00 18.74 ATOM 1285 C LLEU 163 32.967 24.751 69.870 1.00 18.74 ATOM 1286 C LLEU 163 32.967 24.751 69.870 1.00 18.74 ATOM 1286 C LLEU 163 32.967 24.751 69.870 1.00 18.74 ATOM 1287 C LLEU 163 32.967 24.751 69.870 1.00 18.65 AAAA ATOM 1288 C LLEU 163 32.967 24.751 69.870 1.00 18.65 AAAA ATOM 1289 C TYR 164 30.593 25.861 61.797 1.00 16.97 AAAA ATOM 1280 C TYR 164 30.593 25.861 61.797 1.00 16.97 AAAA ATOM 1287 C LLEU 163 32.967 24.751 69.870 1.00 18.65 AAAAA ATOM 1289 C TYR 164 29.475 29.896 68.491 1.00 18.74 AAAAA ATOM 1289 C TYR 164 29.475 29.896 69.91 1.00 18.65 AAAAA ATOM 1289 C TYR 164 29.475 29.896 69.91 1.00 15.63 ATOM 1300 C TYR 164 29.475 29.993 66.5981 1.00 16.07 ATOM 1301 C ABP 166 26.778 29.993 66.59			CB	A P.C	1.61	3	5.164	17.594	69.073	1.00 20.84	•
ATOM 1265 CG ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1266 CD ARG 161 34.715 16.031 71.080 1.00 28.47 AAAA ATOM 1267 NE ARG 161 35.098 16.734 73.445 1.00 30.38 AAAA ATOM 1268 CZ ARG 161 35.098 16.734 73.445 1.00 30.299 AAAA ATOM 1268 NH ARG 161 35.098 16.734 73.445 1.00 40.49 AAAA ATOM 1270 NH2 ARG 161 36.722 16.278 73.889 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 35.071 19.060 68.680 1.00 18.98 AAAA ATOM 1270 NH2 ARG 161 35.071 19.060 68.680 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.572 19.932 69.460 1.00 18.98 AAAA ATOM 1273 N LLE 162 34.744 20.700 66.871 1.00 17.81 AAAA ATOM 1274 CA ILE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1275 CB ILE 162 35.522 20.717 65.024 1.00 18.33 AAAA ATOM 1276 CG2 ILE 162 35.542 22.110 65.042 1.00 18.33 AAAA ATOM 1277 CG1 ILE 162 36.937 72.200 65.895 1.00 18.35 ATOM 1278 CD1 ILE 162 37.722 19.852 64.670 1.00 28.15 AAAA ATOM 1278 CD1 ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1280 O ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1280 O ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1281 N LEU 163 31.653 22.902 67.061 1.00 18.45 ATOM 1282 CA LEU 163 31.152 23.376 68.421 1.00 18.45 ATOM 1284 CG LEU 163 32.986 22.374 67.217 1.00 16.93 AAAA ATOM 1285 CD LEU 163 32.986 22.374 69.771 1.00 16.93 AAAA ATOM 1286 CD LEU 163 32.986 22.374 69.471 1.00 18.74 ATOM 1287 C LEU 163 32.960 24.751 69.870 1.00 18.74 ATOM 1288 O LEU 163 31.1653 22.902 67.061 1.00 19.99 ATOM 1286 CD LEU 163 32.960 24.751 69.870 1.00 18.74 ATOM 1287 C LEU 163 33.105 29.907 66.4421 1.00 18.74 ATOM 1289 N TWR 164 30.752 24.128 68.463 1.00 19.99 ATOM 1280 O LEU 163 32.960 24.751 69.870 1.00 18.75 ATOM 1280 O LEU 163 32.960 24.751 69.870 1.00 18.75 AAAA ATOM 1290 CA TWR 164 30.752 24.128 68.431 1.00 18.74 ATOM 1290 CA TWR 164 30.752 24.128 68.431 1.00 18.74 ATOM 1290 CA TWR 164 30.752 24.128 68.433 1.00 18.75 AAAA ATOM 1291 CB TWR 164 30.752 24.128 66.493 1.00 15.05 AAAA ATOM 1290 CA TWR 164 29.279 28.876 64.893 1.00 18.37 AAAA ATOM 1291 CB TWR 164 29.279 29.893 66.126 1.00 15.63 AAAAA ATOM 1300 CB LEU 1	ATOM							17 467	70 572	1.00 26.02	AAAA
ATOM 1266 CD ARG 161 34.715 16.031 /1.080 1.00 23.8 AAAA ATOM 1267 NE ARG 161 36.212 16.278 73.843 1.00 40.49 AAAA ATOM 1268 CZ ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1269 NH1 ARG 161 36.727 16.278 73.889 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 35.572 19.325 69.460 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.572 19.932 69.460 1.00 18.98 AAAA ATOM 1272 C ARG 161 35.572 19.932 67.458 1.00 19.82 AAAA ATOM 1273 N ILE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1273 N ILE 162 34.743 19.332 67.458 1.00 19.82 AAAA ATOM 1275 CB ILE 162 35.522 20.717 65.626 1.00 18.33 AAAA ATOM 1275 CB ILE 162 35.522 20.110 65.042 1.00 13.65 AAAA ATOM 1277 CGI ILE 162 35.522 20.110 65.042 1.00 13.65 AAAA ATOM 1277 CGI ILE 162 37.722 19.852 64.670 1.00 12.57 AAAA ATOM 1278 CDI ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1279 C ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1281 N LEU 163 32.996 22.714 67.217 1.00 16.93 AAAA ATOM 1281 N LEU 163 32.996 22.714 67.217 1.00 16.93 AAAA ATOM 1281 N LEU 163 31.653 22.992 67.051 1.00 20.52 AAAA ATOM 1282 CA LEU 163 32.996 22.714 67.217 1.00 16.93 AAAA ATOM 1282 CA LEU 163 32.996 22.716 68.421 1.00 14.71 AAAA ATOM 1282 CA LEU 163 31.653 22.992 67.051 1.00 20.52 AAAA ATOM 1285 CD LEU 163 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1286 CD LEU 163 31.653 22.992 67.051 1.00 20.72 AAAA ATOM 1286 C LEU 163 31.653 22.992 67.051 1.00 20.73 AAAA ATOM 1286 CD LEU 163 32.996 24.751 69.870 1.00 15.66 AAAAA ATOM 1286 CD LEU 163 31.653 22.992 67.051 1.00 20.73 AAAA ATOM 1287 C LEU 163 31.655 22.992 68.795 1.00 15.66 AAAAA ATOM 1280 CA LEU 163 31.655 22.992 68.795 1.00 15.66 AAAA ATOM 1280 CA LEU 163 31.705 24.071 66.106 1.00 18.40 AAAA ATOM 1280 CA LEU 163 31.705 24.071 66.106 1.00 18.40 AAAA ATOM 1290 CA TWR 164 30.792 24.889 59.996 1.00 16.97 AAAA ATOM 1290 CA TWR 164 30.792 24.899 68.795 1.00 15.67 AAAA ATOM 1290 CA TWR 164 30.792 24.899 69.475 1.00 15.67 AAAA ATOM 1290 CA TWR 164 30.792 24.899 65.895 1.00 16.35 AAAA ATOM 1290 CA TWR 164 30.792 24.899 66.893 1.00 16.35 AAAAA ATOM 1300 CA TWR 16	ATOM	1264	CB .	ARG							2224
ATOM 1266 CD ARG 161 35.098 16.734 73.455 1.00 13.98 AAAA ATOM 1267 NE ARG 161 35.098 16.734 73.455 1.00 12.99 AATOM 1268 CZ ARG 161 35.098 16.734 73.483 1.00 40.49 AAAA ATOM 1270 NR2 ARG 161 36.724 15.094 74.712 1.00 31.49 AAAA ATOM 1270 NR2 ARG 161 37.703 17.014 74.712 1.00 31.49 AAAA ATOM 1271 C ARG 161 35.552 19.932 69.460 1.00 13.57 AAAA ATOM 1272 O ARG 161 35.552 19.932 69.460 1.00 13.57 AAAA ATOM 1273 N 11LE 162 34.744 20.700 66.947 1.00 17.81 AAAA ATOM 1273 N 11LE 162 35.552 19.932 69.460 1.00 13.65 AAAA ATOM 1275 CB ILE 162 35.552 20.717 65.626 1.00 18.33 ATOM 1276 CG2 ILE 162 35.542 22.110 65.042 1.00 13.65 AAAA ATOM 1277 CG1 ILE 162 35.542 22.110 65.042 1.00 13.65 AAAA ATOM 1278 CD1 ILE 162 33.316 21.846 66.724 1.00 17.81 AAAA ATOM 1279 C ILE 163 33.316 21.846 66.724 1.00 17.99 AAAA ATOM 1279 C ILE 163 33.252 20.492 66.126 1.00 17.99 AAAA ATOM 1280 O ILE 163 32.956 22.974 67.217 1.00 16.93 AAAA ATOM 1281 N LEU 163 32.956 22.90.975 68.421 1.00 18.799 AAAA ATOM 1282 CA LEU 163 31.155 22.902 67.061 1.00 20.73 AAAA ATOM 1283 CB LEU 163 31.653 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1286 CD LEU 163 31.653 32.996 24.751 69.870 1.00 18.74 AAAA ATOM 1286 CD LEU 163 31.652 68.463 1.00 17.99 AAAA ATOM 1286 CD LEU 163 31.653 32.907 68.141 1.00 18.45 ATOM 1287 C T T T T T T T T T T T T T T T T T T		1265	CG	ARG	161	3	4.715	16.031			
ATOM 1265 NE ARG 161 35.098 16.734 73.445 1.00 12.99 AAAA ATOM 1268 CZ ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1270 NM2 ARG 161 36.724 15.094 73.489 1.00 31.49 AAAA ATOM 1270 NM2 ARG 161 35.771 19.060 68.680 1.00 18.98 AAAA ATOM 1271 C ARG 161 35.572 19.932 69.460 1.00 23.57 AAAA ATOM 1272 O ARG 161 35.572 19.932 69.460 1.00 19.82 AAAA ATOM 1273 N ILE 162 34.743 19.332 69.460 1.00 19.82 AAAA ATOM 1274 CA ILE 162 34.744 20.700 66.947 1.00 17.81 AAAA ATOM 1275 CB ILE 162 35.522 20.717 65.626 1.00 18.33 AAAA ATOM 1276 CG2 ILE 162 35.522 20.717 65.626 1.00 18.33 AAAA ATOM 1277 CG1 ILE 162 36.937 20.200 65.895 1.00 18.65 AAAA ATOM 1278 CD1 ILE 162 37.722 19.852 64.670 1.00 22.52 AAAA ATOM 1278 CD1 ILE 162 33.316 21.184 66.724 1.00 17.99 AAAA ATOM 1278 CD1 ILE 162 33.316 21.184 66.724 1.00 17.99 AAAA ATOM 1280 O ILE 162 33.316 21.184 66.724 1.00 17.99 AAAA ATOM 1280 C ILE 163 32.990 22.374 66.421 1.00 18.93 AAAA ATOM 1280 C ILE 163 31.653 22.902 67.061 1.00 20.73 AAAA ATOM 1282 CA LEU 163 32.992 22.374 66.421 1.00 18.93 AAAA ATOM 1282 CA LEU 163 31.653 22.902 67.061 1.00 20.73 AAAA ATOM 1283 CB LEU 163 31.653 22.902 67.061 1.00 19.99 AAAA ATOM 1286 CD2 LEU 163 32.9609 24.775 69.870 1.00 18.74 AAAA ATOM 1287 C LEU 163 32.9609 24.775 69.870 1.00 18.74 AAAA ATOM 1288 O LEU 163 32.9609 24.775 69.870 1.00 18.74 AAAA ATOM 1289 N TWR 164 30.595 25.246 64.252 1.00 11.76 AAAA ATOM 1289 N TWR 164 30.595 25.246 64.252 1.00 11.76 AAAA ATOM 1289 C TWR 164 30.595 25.246 64.252 1.00 11.76 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 15.67 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1289 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1290 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1290 C TWR 164 30.595 26.895 1.00 12.70 AAAA ATOM 1290 C TWR 164 29.895 26.895 66.595 1.00 12.31 AAAA ATOM 1290 C TWR 164 29.895 26.895 66.595 1.00 12.31 AAAA ATOM 1300 C A SP 166 26.						7	4 213	16 025	72.523	1.00 30.38	AAAA
ATOM 1268 C2 ARG 161 36.272 16.278 73.883 1.00 40.49 AAAA ATOM 1269 NH1 ARG 161 36.724 15.094 73.489 1.00 31.49 AAAA ATOM 1270 NH2 ARG 161 37.003 17.014 74.712 1.00 31.49 ATOM 1271 C ARG 161 35.571 19.006 68.680 1.00 13.57 ATOM 1272 O ARG 161 35.571 19.006 68.680 1.00 13.57 ATOM 1273 N T.LE 162 34.743 19.332 67.458 1.00 17.81 ATOM 1273 N T.LE 162 34.743 19.332 67.458 1.00 17.81 ATOM 1275 CB ILE 162 35.522 20.117 65.626 1.00 18.65 AAAA ATOM 1276 CGZ ILE 162 35.522 22.110 65.042 1.00 13.65 AAAA ATOM 1277 CGI ILE 162 35.522 22.110 65.042 1.00 13.65 AAAA ATOM 1278 CDI ILE 162 37.722 19.852 64.670 1.00 12.55 AAAA ATOM 1278 CDI ILE 162 33.316 21.184 66.724 1.00 14.71 AAAA ATOM 1278 CDI ILE 162 33.542 22.110 66.126 1.00 18.93 ATOM 1280 O ILE 163 32.996 22.374 67.217 1.00 16.93 AAAA ATOM 1281 N LEU 163 31.653 22.992 67.061 1.00 17.83 ATOM 1282 CA LEU 163 31.653 32.992 67.061 1.00 17.83 ATOM 1283 CB LEU 163 31.653 32.992 67.061 1.00 17.93 AAAA ATOM 1284 CG LEU 163 31.653 32.992 62.774 67.217 1.00 16.93 AAAA ATOM 1285 CDI LEU 163 32.996 22.774 67.217 1.00 16.93 AAAA ATOM 1286 CDL LEU 163 32.986 22.774 67.217 1.00 18.45 ATOM 1287 CC LEU 163 31.653 22.992 67.061 1.00 19.93 AAAA ATOM 1289 CDI LEU 163 32.986 24.236 68.463 1.00 19.99 AAAA ATOM 1289 CDI LEU 163 32.986 24.236 68.463 1.00 19.99 AAAA ATOM 1289 CDI LEU 163 32.986 24.236 68.463 1.00 19.99 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1289 CDI LEU 163 32.996 27.795 1.00 15.66 AAAA ATOM 1280 CDI TYR 164 30.995 29.995 29.995 1.00 16.975 AAAA ATOM 1280 CDI TYR 164 30.995 29.995 20.995 20.995 20.995 20.995 20.995 20.995 20.995 20.995 20.995 20.99	ATOM	1266	CD	AKG						1 00 32 99	2222
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ATOM 1281 C	ATOM		-						67 217	1.00 16.93	AAAA
ATOM 1282 CA LEU 163 31.653 22.902 67.01 1.00 18.45 AAAA ATOM 1284 CG LEU 163 29.846 24.236 68.461 1.00 18.45 AAAA ATOM 1285 CD1 LEU 163 28.657 23.408 67.975 1.00 15.66 AAAAA ATOM 1286 CD2 LEU 163 29.609 24.751 69.870 1.00 18.74 AAAA ATOM 1287 C LEU 163 31.705 24.071 66.106 1.00 18.45 AAAA ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 18.65 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 11.76 AAAAA ATOM 1291 CB TYR 164 30.752 24.128 65.186 1.00 14.07 AAAA ATOM 1291 CB TYR 164 30.752 24.754 62.816 1.00 14.07 AAAA ATOM 1293 CD1 TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 30.593 25.851 61.502 1.00 27.08 AAAA ATOM 1295 CD2 TYR 164 30.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1299 C TYR 164 29.493 26.891 60.137 1.00 21.89 AAAA ATOM 1299 C TYR 164 29.493 26.891 60.137 1.00 21.89 AAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.857 28.766 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.857 28.766 61.881 1.00 16.35 AAAA ATOM 1300 O TYR 164 29.279 25.873 64.465 1.00 16.35 AAAA ATOM 1300 C TYR 164 29.279 25.873 64.465 1.00 16.35 AAAA ATOM 1300 C TYR 164 29.279 25.873 64.465 1.00 16.35 AAAA ATOM 1300 N TLE 165 27.959 28.596 66.254 1.00 13.36 AAAA ATOM 1300 C TLE 165 27.959 28.596 66.254 1.00 13.36 AAAA ATOM 1300 C TLE 165 27.959 28.596 66.254 1.00 13.36 AAAA ATOM 1300 C AASP 166 26.775 28.991 66.499 1.00 13.06 AAAA ATOM 1300 C AASP 166 25.378 30.508 59.213 1.00 15.567 AAAA ATOM 1300 C AASP 166 25.378 30.508 59.213 1.00 15.567 AAAA ATOM 1300 C AASP 166 25.378 30.508 59.213 1.00 15.563 AAAA ATOM 1310 C AASP 166 25.378 30.508 59.213 1.00 15.564 AAAA ATOM 1310 C AASP 166 25.378 30.508 59.213 1.00 15.564 AAAA ATOM 1310 C AASP 166 25.378 30.508 59.213 1.00 15.564 AAAA ATOM 1311 CB ASP 166 25.378 30.508 59.213 1.00 15.564 AAAA ATOM 1311 CB AS	MOTA	1281	N	LEU	163				-		2222
ATOM 1283 CB LEU 163 31.115 23.376 68.421 1.00 18.45 AAAA ATOM 1284 CG LEU 163 29.866 24.236 68.463 1.00 19.99 AAAA ATOM 1285 CD1 LEU 163 29.865 23.408 67.975 1.00 15.66 AAAA ATOM 1286 CD2 LEU 163 29.609 24.751 69.870 1.00 18.74 AAAA ATOM 1287 C LEU 163 31.705 24.071 66.106 1.00 18.74 AAAA ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 18.65 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 11.76 AAAA ATOM 1290 CA TYR 164 30.656 25.246 64.252 1.00 11.76 AAAA ATOM 1291 CB TYR 164 30.782 24.754 62.816 1.00 14.07 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAA ATOM 1295 CD2 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.007 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.07 1.00 21.89 AAAA ATOM 1298 OH TYR 164 29.415 25.9916 61.070 1.00 12.89 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 CD TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 15.67 AAAA ATOM 1300 O TYR 164 29.857 28.764 58.913 1.00 16.07 AAAAA ATOM 1301 N ILE 165 27.178 27.887 64.853 1.00 16.07 AAAAA ATOM 1302 CG ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1304 CG2 ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1305 CG ILE 165 27.859 28.596 66.254 1.00 13.06 AAAA ATOM 1306 CD ILE 165 27.859 28.596 66.254 1.00 15.67 AAAA ATOM 1308 O ILE 165 27.859 28.596 66.254 1.00 15.563 AAAA ATOM 1306 CD ILE 165 27.859 28.596 66.254 1.00 13.31 AAAA ATOM 1306 CD ILE 165 27.859 28.596 66.254 1.00 15.563 AAAA ATOM 1306 CD ILE 165 27.859 28.596 66.254 1.00 15.563 AAAA ATOM 1306 CD ILE 165 27.859 28.596 66.254 1.00 15.563 AAAA ATOM 1308 O ILE 165 27.859 28.596 66.254 1.00 15.563 AAAA ATOM 1308 O ILE 165 27.859 29.733 63.569 1.00 15.563 AAAA ATOM 1306 CD ILE 165 26.650 29.779 61.942 1.00 15.563 AAAA ATOM 131		1292	CE	LEU	163		31.653	22.902	67.061		
ATOM 1283 CB LEU 163 29.846 24.236 68.463 1.00 19.99 AAAA ATOM 1285 CD1 LEU 163 28.657 23.408 67.975 1.00 15.66 AAAA ATOM 1287 C LEU 163 32.609 24.751 69.870 1.00 18.40 AAAA ATOM 1287 C LEU 163 32.607 24.889 66.188 1.00 18.40 AAAA ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 16.97 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1289 N TYR 164 30.656 25.246 64.252 1.00 11.76 AAAAA ATOM 1290 CA TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 60.137 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 60.137 1.00 21.45 AAAA ATOM 1297 CZ TYR 164 29.419 32.6891 60.137 1.00 21.45 AAAA ATOM 1299 C TYR 164 29.419 32.6891 60.137 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.419 32.6891 60.137 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.465 1.00 15.35 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.465 1.00 15.67 AAAAA ATOM 1300 O TYR 164 29.279 25.873 64.465 1.00 15.67 AAAAA ATOM 1300 O TYR 164 29.279 25.873 64.465 1.00 15.67 AAAAA ATOM 1300 O TYR 164 29.279 25.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 26.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 26.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 26.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 26.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 26.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 28.873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 29.8873 64.465 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 29.8873 64.899 1.00 16.07 AAAAA ATOM 1300 C TYR 164 29.279 29.8873 64.465 1.00 15.00 15.00 AAAAA ATOM 1300 C TYR 166 26.276 28.896 66.254 1.00 13.06 AAAAATOM 1300 C TYR 166 26.276 28.896 66.276 1.00 12.01 13.06 AAAAATOM 1300 C TYR 166 26.276 28.895 60.698 1.00 12.31 AAAAATOM 1310 C AASP 166 26.276 28.895 60.698 1.00 12.31 AAAAATOM							21 115	23 376	68.421	1.00 18.45	AAAA
ATOM 1285 CD1 LEU 163 29.609 24.751 69.870 1.00 15.66 AAAA ATOM 1286 CD2 LEU 163 31.705 24.071 66.106 1.00 18.74 AAAA ATOM 1287 C LEU 163 32.607 24.889 66.188 1.00 18.65 AAAAA ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 18.65 AAAAA ATOM 1288 N TYR 164 30.752 24.128 65.186 1.00 14.07 AAAAA ATOM 1290 CA TYR 164 30.656 65.244 64.252 1.00 11.76 AAAAA ATOM 1291 CB TYR 164 30.593 25.851 61.797 1.00 14.51 AAAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.552 1.00 27.08 AAAAA ATOM 1294 CE1 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.45 AAAAA ATOM 1297 CZ TYR 164 30.148 27.839 59.896 1.00 16.35 AAAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 27.44 AAAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 15.67 AAAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 15.67 AAAAA ATOM 1299 C TYR 164 29.857 28.764 64.674 1.00 14.52 AAAAA ATOM 1300 O TYR 164 29.279 25.873 64.463 1.00 15.67 AAAAA ATOM 1300 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAAA ATOM 1300 C TYR 165 2940 27.187 64.674 1.00 14.52 AAAAA ATOM 1300 C TYR 165 2940 27.187 64.675 1.00 16.07 AAAAA ATOM 1303 CB LLE 165 27.785 27.887 64.893 1.00 18.37 AAAAA ATOM 1303 CB LLE 165 27.785 27.887 64.893 1.00 18.37 AAAAA ATOM 1303 CB LLE 165 27.585 28.906 66.254 1.00 13.06 AAAAA ATOM 1305 CG1 LLE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1306 CD1 LLE 165 28.759 29.733 63.569 1.00 15.02 AAAAAATOM 1308 O LLE 165 28.759 29.733 63.569 1.00 15.63 AAAAAATOM 1301 CA ASP 166 26.572 28.901 63.084 1.00 15.63 AAAAATOM 1310 CA ASP 166 26.572 28.901 63.084 1.00 15.63 AAAAATOM 1310 CA ASP 166 26.572 28.901 63.084 1.00 15.63 AAAAATOM 1310 CA ASP 166 26.572 28.901 63.084 1.00 15.63 AAAATOM 1310 CA ASP 166 26.573 80.508 59.213 1.00 13.41 AAAATOM 1313 OD1 ASP 166 26.573 80.508 59.213 1.00 13.41 AAAATOM 1313 OD1 ASP 166 26.573 80.508 59.213 1.00 13.41 AAAATOM 1313 OD1 ASP 166 26.573 80.508 59.233 1.00 13.41 AAAATOM	ATOM	1283	CB								AAAA
ATOM 1285 CD1 LEU 163	A TOM	1284	CG	LEU	163		29.846			1.00 13.33	
ATOM 1286 CD2 LEU 163					163	•	28.657	23.408	67.975		
ATOM 1286 CD2 LEU 163 31.705 24.071 66.106 1.00 18.40 AAAA ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 18.65 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1290 CA TYR 164 30.656 25.246 64.252 1.00 11.76 AAAA ATOM 1291 CB TYR 164 30.782 24.754 62.816 1.00 14.07 AAAA ATOM 1291 CB TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAA ATOM 1295 CD2 TYR 164 31.353 27.832 60.598 1.00 27.08 AAAA ATOM 1295 CD2 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1300 O TYR 164 28.760 25.177 64.465 1.00 14.52 AAAA ATOM 1300 CA ILE 165 27.788 27.887 64.893 1.00 14.52 AAAA ATOM 1301 N ILE 165 29.40 27.187 64.674 1.00 14.52 AAAA ATOM 1302 CA ILE 165 27.788 27.987 64.893 1.00 13.06 AAAA ATOM 1303 CB ILE 165 27.788 27.987 64.893 1.00 13.06 AAAA ATOM 1304 CG2 ILE 165 28.493 28.906 66.254 1.00 13.31 AAAA ATOM 1304 CG2 ILE 165 28.654 29.359 66.254 1.00 13.36 AAAA ATOM 1305 CG1 ILE 165 28.872 27.573 67.376 1.00 13.06 AAAA ATOM 1306 CD1 ILE 165 28.892 29.973 63.569 1.00 15.02 AAAA ATOM 1306 CD1 ILE 165 28.892 29.973 63.569 1.00 15.02 AAAA ATOM 1306 CD1 ILE 165 28.892 29.973 63.569 1.00 15.02 AAAA ATOM 1306 CD1 ILE 165 28.892 29.973 66.598 1.00 15.02 AAAA ATOM 1310 CA ASP 166 26.272 28.895 60.698 1.00 12.31 AAAA ATOM 1310 CA ASP 166 26.272 28.895 60.698 1.00 12.31 AAAA ATOM 1311 CB ASP 166 26.272 28.895 60.698 1.00 15.63 AAAA ATOM 1313 CA ASP 166 26.272 28.895 60.698 1.00 15.63 AAAA ATOM 1313 CA ASP 166 26.272 28.895 60.698 1.00 15.63 AAAA ATOM 1313 CB ASP 166 26.272 28.895 60.698 1.00 15.63 AAAA ATOM 1313 CB ASP 166 26.272 29.666 59.331 1.00 13.41 AAAA ATOM 1313 CB ASP 166 26.272 29.666 59.331 1.00 15.64 AAAA ATOM 1311	MOTA								69 870	1 00 18.74	AAAA
ATOM 1287 C LEU 163 31.705 24.807 66.108 1.00 18.65 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1290 CA TYR 164 30.655 25.246 64.252 1.00 11.76 AAAA ATOM 1291 CB TYR 164 30.752 24.128 65.186 1.00 14.07 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1290 C TYR 164 29.279 25.873 64.465 1.00 16.07 AAAA ATOM 1300 O TYR 164 29.279 27.887 64.465 1.00 15.67 AAAA ATOM 1300 O TYR 164 29.279 27.887 64.465 1.00 15.67 AAAA ATOM 1300 O TYR 164 29.279 27.878 66.474 1.00 13.31 AAAA ATOM 1300 CA ILE 165 27.788 7 64.893 1.00 18.37 AAAA ATOM 1300 CG ILE 165 27.788 7 64.893 1.00 18.37 AAAA ATOM 1300 CG ILE 165 27.788 7 64.893 1.00 13.06 AAAA ATOM 1300 CG ILE 165 28.493 28.209 68.739 1.00 13.06 AAAA ATOM 1300 CG ILE 165 28.893 28.926 63.779 1.00 27.55 AAAA ATOM 1300 CG ILE 165 28.893 28.926 63.779 1.00 15.02 AAAA ATOM 1300 CA ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1300 CA ASP 166 26.725 28.895 60.698 1.00 15.03 AAAA ATOM 1300 CA ASP 166 26.725 28.895 60.698 1.00 15.63 AAAA ATOM 1310 CA ASP 166 26.725 28.895 60.698 1.00 15.63 AAAA ATOM 1310 CA ASP 166 26.279 29.666 59.333 1.00 15.01 AAAA ATOM 1310 CA ASP 166 26.725 28.895 60.698 1.00 15.54 AAAA ATOM 1311 CB ASP 166 26.725 28.895 60.698 1.00 15.54 AAAA ATOM 1311 CB ASP 166 26.725 28.991 63.084 1.00 15.54 AAAA ATOM 1311 CB ASP 166 26.727 29.666 59.333 1.00 16.37 AAAA ATOM 1311 CB ASP 166 26.799 29.666 59.333 1.00 16.37 AAAA ATOM 1311 CB ASP 166 26.799 29.666 59.393 1.00 15.02 AAAA ATOM 1311 CB ASP 166 26.799 29.666 59.393 1.00 15.02 AAAA ATOM 1311 CB ASP 166 26.799 29.666	ATOM	1286	CD2	LEU	163					2 00 18 40	
ATOM 1288 O LEU 163 32.607 24.889 66.188 1.00 18.65 AAAA ATOM 1289 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1290 CA TYR 164 30.656 25.246 64.252 1.00 11.76 AAAA ATOM 1291 CB TYR 164 30.782 24.754 62.816 1.00 14.07 AAAA ATOM 1292 CG TYR 164 30.593 25.851 61.797 1.00 14.51 AAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAA ATOM 1293 CD1 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1297 CZ TYR 164 30.148 27.839 59.896 1.00 16.35 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1300 0 TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1300 0 TYR 164 28.60 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 18.37 AAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 18.31 AAAAA ATOM 1304 CG2 ILE 165 27.959 28.596 66.254 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 28.493 28.209 68.739 1.00 18.37 AAAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1307 C ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1300 CA ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1300 CA ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1300 CA ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.726 28.885 60.698 1.00 16.37 AAAAA ATOM 1311 CB ASP 166 26.726 28.895 60.698 1.00 16.37 AAAAA ATOM 1313 CA ASP 166 26.726 28.895 60.698 1.00 16.37 AAAAA ATOM 1315 CA ASP 166 26.726 28.895 60.698 1.00 15.554 AAAAA ATOM 1316 CA ASP 166 26.726 28.895 60.698 1.00 15.554 AAAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.61 AAAAATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.61 AAAAATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.61 AAAAATOM 1318 CA LEU 167 25.549 32.999 66.665 1.00 12.05 AAAAATO		1287	C	LEU	163		31.705	24.071	66.106		
ATOM 1288 0 N TYR 164 30.752 24.128 65.186 1.00 16.97 AAAA ATOM 1290 CA TYR 164 30.656 25.246 64.252 1.00 11.76 AAAA ATOM 1291 CB TYR 164 30.782 24.754 62.816 1.00 14.07 AAAA ATOM 1293 CG TYR 164 30.782 24.754 62.816 1.00 14.07 AAAA ATOM 1293 CD1 TYR 164 31.573 26.822 61.562 1.00 27.08 AAAA ATOM 1293 CD1 TYR 164 31.353 27.832 60.598 1.00 26.21 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.193 26.891 60.137 1.00 218.89 AAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1300 O TYR 164 28.60 25.177 64.465 1.00 16.07 AAAA ATOM 1301 N ILE 165 29.40 27.187 64.674 1.00 14.52 AAAA ATOM 1302 CA ILE 165 27.578 27.887 64.893 1.00 18.37 AAAA ATOM 1303 CB ILE 165 27.578 27.887 64.893 1.00 18.37 AAAA ATOM 1304 CG2 ILE 165 27.578 27.887 64.893 1.00 18.37 AAAA ATOM 1305 CG1 ILE 165 28.493 28.209 68.739 1.00 13.31 AAAAA ATOM 1306 CD1 ILE 165 28.8172 27.573 67.376 1.00 17.28 AAAA ATOM 1308 O ILE 165 28.879 29.733 63.569 1.00 15.67 AAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 15.37 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 15.37 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 15.63 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.54 AAAAA ATOM 1311 CB ASP 166 26.503 29.779 61.942 1.00 15.54 AAAAAATOM 1315 CA ASP 166 26.534 8.885 60.698 1.00 12.31 AAAAATOM 1316 O ASP 166 26.538 8.855 60.698 1.00 12.31 AAAAATOM 1316 O ASP 166 26.503 29.779 61.942 1.00 15.554 AAAAATOM 1317 N LEU 167 25.647 32.910 62.407 1.00 14.02 AAAATOM 1318 CA LEU 167 25.647 32.910 62.407 1.00 14.61 AAAATOM 1316 O ASP 166 25.348 30.508 59.213 1.00 15.554 AAAAATOM 1317 N LEU 167 25.647 32.910 62.407 1.00 14.61 AAAATOM 1318 CA LEU 167 25.5							32 607	24 889	66.188	1.00 18.65	AAAA
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ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.45 AAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1297 CZ TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 15.67 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAAA ATOM 1300 O TYR 164 28.60 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAAA ATOM 1302 CA ILE 165 27.178 27.887 64.893 1.00 18.37 AAAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAAA ATOM 1306 CD1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAAA ATOM 1307 C ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1308 O ILE 165 28.893 28.209 68.739 1.00 15.02 AAAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 15.37 AAAAA ATOM 1312 CG ASP 166 26.276 28.885 60.698 1.00 15.54 AAAAA ATOM 1313 ODI ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 ODI ASP 166 25.378 30.508 59.213 1.00 16.37 AAAAA ATOM 1314 OD2 ASP 166 25.378 30.508 59.213 1.00 16.37 AAAAAA ATOM 1315 CA ASP 166 25.378 30.508 59.213 1.00 16.37 AAAAAAA ATOM 1316 OD ASP 166 25.334 30.740 62.174 1.00 15.54 AAAAAATOM 1316 OD ASP 166 25.334 30.740 62.174 1.00 15.54 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ATOM									1 00 26.21	AAAA
ATOM 1295 CD2 TYR 164 29.415 25.916 61.070 1.00 21.89 AAAA ATOM 1296 CE2 TYR 164 29.193 26.891 60.137 1.00 21.89 AAAA ATOM 1297 CZ TYR 164 30.148 27.839 59.896 1.00 16.35 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1300 O TYR 164 28.60 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAA ATOM 1302 CA ILE 165 27.178 27.887 64.893 1.00 18.37 AAAA ATOM 1303 CB ILE 165 27.578 27.887 64.893 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.254 1.00 13.06 AAAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAAA ATOM 1305 CG1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1307 C ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1308 O ILE 165 27.853 28.926 63.779 1.00 20.75 AAAAA ATOM 1309 N ASP 166 26.572 28.901 63.084 1.00 15.37 AAAAA ATOM 1300 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1310 CA ASP 166 26.276 28.885 60.698 1.00 12.31 AAAAA ATOM 1311 CB ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 ODI ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOTA	1294	CE1	TYR	164		31.333				
ATOM 1295 CE2 TYR 164 30.148 27.839 59.896 1.00 16.35 AAAA ATOM 1297 CZ TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.857 28.764 58.913 1.00 15.67 AAAA ATOM 1300 O TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1301 N ILE 165 2940 27.187 64.655 1.00 16.07 AAAA ATOM 1302 CA ILE 165 2778 27.887 64.893 1.00 18.37 AAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1303 CB ILE 165 26.654 29.359 66.419 1.00 13.31 AAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAA ATOM 1307 C ILE 165 28.8493 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.7559 29.733 63.569 1.00 16.67 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1312 CG ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1313 OD1 ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 15.54 AAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1317 N LEU 167 25.647 32.910 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 25.647 32.910 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 25.647 32.910 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 25.647 32.910 62.407 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.647 32.910 62.407 1.00 14.61 AAAA ATOM 1318 CA LEU 167 25.647 32.910 62.407 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.647 32.910 62.407 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61			CD3	TVR	164		29.415	25.916	61.070		
ATOM 1296 CE2 TYR 164 30.148 27.839 59.896 1.00 16.35 AAAA ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAAA ATOM 1300 O TYR 164 28.760 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.455 1.00 16.07 AAAAA ATOM 1302 CA ILE 165 27.178 27.887 64.893 1.00 18.37 AAAAA ATOM 1303 CB ILE 165 27.959 28.596 66.419 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1307 C ILE 165 28.493 28.926 63.779 1.00 20.75 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 15.02 AAAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 15.37 AAAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1314 OD2 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1314 OD2 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA								26 891	60.137	1.00 21.89	AAAA
ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1298 OH TYR 164 29.279 25.873 64.463 1.00 15.67 AAAAA ATOM 1300 O TYR 164 28.760 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAAA ATOM 1302 CA ILE 165 27.178 27.887 64.893 1.00 18.37 AAAAA ATOM 1303 CB ILE 165 27.595 28.596 66.254 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAAA ATOM 1305 CG1 ILE 165 28.493 28.209 68.739 1.00 17.28 AAAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 17.28 AAAAA ATOM 1307 C ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 15.63 AAAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 15.504 AAAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOTA	1296	CE2	TYK						1 00 16 35	AAAA
ATOM 1298 OH TYR 164 29.857 28.764 58.913 1.00 27.44 AAAA ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1300 O TYR 164 28.60 25.177 64.455 1.00 16.07 AAAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAAA ATOM 1302 CA ILE 165 27.278 27.987 64.893 1.00 18.37 AAAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.31 AAAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAAA ATOM 1314 OD2 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAAA ATOM 1315 C ASP 166 25.378 30.508 59.213 1.00 13.41 AAAAA ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOTE	1297	CZ	TYR	164						
ATOM 1299 C TYR 164 29.279 25.873 64.463 1.00 15.67 AAAA ATOM 1300 O TYR 164 28.60 25.177 64.455 1.00 16.07 AAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAA ATOM 1302 CA ILE 165 27.78 27.987 64.893 1.00 18.37 AAAA ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1312 CG ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAA ATOM 1314 OD2 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1315 C ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.051 33.932 65.091 1.00 17.20					164		29.857	28.764	58.913		
ATOM 1300 O TYR 164 28.^60 25.177 64.455 1.00 16.07 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ATOM								64.463	1.00 15.67	AAAA
ATOM 1300 O TYR 164 28.60 25.17 84.433 1.00 14.52 AAAA ATOM 1301 N ILE 165 2940 27.187 64.674 1.00 14.52 AAAA ATOM 1303 CB ILE 165 27.78 27.887 64.893 1.00 18.37 AAAA ATOM 1303 CB ILE 165 26.654 29.359 66.419 1.00 13.31 AAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1312 CG ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAA ATOM 1314 OD2 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1315 C ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1316 O ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1316 O ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1316 O ASP 166 25.378 30.508 59.213 1.00 15.54 AAAA ATOM 1316 O ASP 166 25.378 30.508 59.213 1.00 15.54 AAAA ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20	MOTA	1299	С	TYR	104						AAAA
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ATOM 1302 CA ILE 165 27.959 28.596 66.254 1.00 13.31 AAAA ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAA ATOM 1305 CG1 ILE 165 28.172 27.573 67.376 1.00 17.28 AAAA ATOM 1306 CD1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1312 CG ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1313 OD1 ASP 166 26.276 29.666 59.393 1.00 16.37 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAAA ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.345 33.239 65.091 1.00 17.20	ATOM		://				27 . 70			1 00 18.37	AAAA
ATOM 1303 CB ILE 165 27.959 28.596 66.254 1.00 13.06 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOTA	1302	$C\lambda$	ILE	165					1 00 12 21	2222
ATOM 1304 CG2 ILE 165 26.654 29.359 66.419 1.00 13.06 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			CB	TIF	165		27.959	28.596	66.254	1.00 13.31	
ATOM 1304 CG2 ILE 165 ATOM 1305 CG1 ILE 165 ATOM 1306 CD1 ILE 165 ATOM 1306 CD1 ILE 165 ATOM 1307 C ILE 165 ATOM 1308 O ILE 165 ATOM 1309 N ASP 166 ATOM 1310 CA ASP 166 ATOM 1311 CB ASP 166 ATOM 1312 CG ASP 166 ATOM 1313 OD1 ASP 166 ATOM 1314 OD2 ASP 166 ATOM 1315 C ASP 166 ATOM 1316 O ASP 166 ATOM 1317 N LEU 167 ATOM 1316 O ASP 166 ATOM 1317 N LEU 167 ATOM 1318 CA LEU 167 ATOM 1318 CA LEU 167 ATOM 1319 CB LEU 167 ATOM 1320 CG LEU 167									66.419	1.00 13.06	AAAA
ATOM 1305 CG1 ILE 165 28.493 28.209 68.739 1.00 15.02 AAAA ATOM 1307 C ILE 165 27.853 28.926 63.779 1.00 20.75 AAAA ATOM 1308 O ILE 165 28.759 29.733 63.569 1.00 16.67 AAAA ATOM 1309 N ASP 166 26.725 28.901 63.084 1.00 15.37 AAAA ATOM 1310 CA ASP 166 26.503 29.779 61.942 1.00 15.63 AAAA ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAA ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAA ATOM 1313 OD1 ASP 166 26.279 29.666 59.393 1.00 16.37 AAAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAAA ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1316 O ASP 166 25.334 30.740 62.174 1.00 15.54 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1319 CB LEU 167 25.345 33.239 65.091 1.00 17.20	ATOM	1304									AAAA
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ATOM 1310 CA ASP 166 26.303 29.773 61.00 12.31 AAAI ATOM 1311 CB ASP 166 26.276 28.885 60.698 1.00 12.31 AAAI ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAAI ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAI ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAAI ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAAI ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAAI ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAI ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAI ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAI ATOM 1319 CB LEU 167 25.345 33.239 65.091 1.00 17.20 AAAI ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20	MOTA	1309	N								AAAA
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ATOM 1312 CG ASP 166 26.279 29.666 59.393 1.00 16.37 AAA ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAA ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAA ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 15.54 AAA ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1319 CG LEU 167 25.345 33.239 65.091 1.00 17.20					166		26.276	28.885	60.698	1.00 12.31	
ATOM 1312 CG ASP 166 25.378 30.508 59.213 1.00 13.41 AAA ATOM 1313 OD1 ASP 166 27.187 29.428 58.551 1.00 16.06 AAA ATOM 1314 OD2 ASP 166 25.334 30.740 62.174 1.00 15.54 AAA ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 12.60 AAA ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1319 CB LEU 167 25.345 33.239 65.091 1.00 17.20 AAA	ATOM								59 393	1.00 16.37	AAAA
ATOM 1313 OD1 ASP 166 25.378 30.508 59.213 1.00 13.41 AAAA AAAA ATOM 1314 OD2 ASP 166 27.187 29.428 58.551 1.00 16.06 AAAA AAAA ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ATOM	1312									AAAA
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ATOM 1314 OD2 ASP 166 25.334 30.740 62.174 1.00 15.54 AAA AAA ATOM 1315 C ASP 166 24.160 30.355 62.137 1.00 12.60 AAA AAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAA								7 29.428	58.551		
ATOM 1315 C ASP 166 25.334 30.740 62.174 1.00 12.60 AAA ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAA	ATOM	1314					_				AAAA
ATOM 1316 O ASP 166 24.160 30.355 62.137 1.00 12.60 AAA ATOM 1317 N LEU 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAA		: 315	<u> </u>	ASP	166						
ATOM 1316 0 ASP 167 25.647 32.010 62.407 1.00 14.02 AAA ATOM 1317 N LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1318 CA LEU 167 24.598 32.993 62.665 1.00 14.61 AAA ATOM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAA					166		24.160	30.355	62.137	1.00 12.60	
ATOM 1317 N LEU 167 24.598 32.993 62.665 1.00 12.05 AAA ATOM 1318 CA LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATOM 1319 CB LEU 167 25.051 33.239 65.091 1.00 17.20 AAA ATOM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20	MOTA										AAAA
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ATCM 1319 CB LEU 167 25.051 33.962 63.767 1.00 14.61 AAA ATCM 1320 CG LEU 167 25.345 33.239 65.091 1.00 17.20 AAA				LEU	167) I.UU 12.US	
ATCM 1319 CB LEU 167 25.345 33.239 65.091 1.00 17.20 AAA									2 63.767	1.00 14.61	
ATCM 1320 CG LEU 16/ 25.343 33.239 03.031 1:00 2.44	ATCM	1319	CB								AAAA
Arc.i.		1320	CG	LEU	167		25.34	2 22.23	, 00.UJ	1.00 17.20	
		. 1520							-		•
				-							

39/263 Figure 16-21

ATOM	1321	CD1	LEH	167	25.635	34.271	66.169	1.00 28.82	AAAA
	1322	CD2		167	24.148	32.372	65.513	1.00 18.59	AAAA
MOTA									
MOTA	1323	С	LEU	167	24.122	33.776	61.449	1.00 12.62	AAAA
ATOM	1324	0	LEU	167	23.288	34.678	61.570	1.00 15.00	AAAA
ATOM	1325	N	ASP	168	24.667	33.431	60.288	1.00 14.35	AAAA
	1326	CA	ASP	168	24.277	34.056	59.022	1.00 19.50	AAAA
MOTA								1.00 25.15	
MOTA	1327	'CB	ASP	168	25.060	33.409	57.880		AAAA
MOTA	1328	CG	ASP	168	24.908	34.145	56.573	1.00 48.45	AAAA
ATOM	1329	ODI	ASP	168	25.477	35.247	56.454	1.00 54.45	AAAA
	1330	OD2		168	24.215	33.633	55.668	1.00 44.71	AAAA
ATOM					22.787	33.751	58.834	1.00 16.30	AAAA
MOTA	1331	С	ASP	168					
ATOM	1332	0	ASP	168	22.327	32.696	59.252	1.00 17.72	AAAA
MOTA	1333	N	ALA	169	22.059	34.657	58.175	1.00 14.11	AAAA .
ATOM	1334	CA	ALA	169	20.618	34.503	57.934	1.00 19.61	AAAA
	1335	CB	ÀLÀ	169	20.006	35.856	57.470	1.00 13.56	AAAA
MOTA							56.926		AAAA
ATOM	1336	С	ALA	169	20.277	33.400		1.00 18.23	
MOTA	1337	0	ALA	169	19.105	33.159	56.641	1.00 17.20	AAAA
MOTA	1338	N	HIS	170	21.301	32.750	56.373	1.00 16.53	AAAA
ATOM	1339	CA	HIS	170	21.075	31.652	55.436	1.00 17.51	AAAA
		CB	HIS	170	21.616	31.973	54.033	1.00 22.32	AAAA
MOTA	1340								
ATOM	1341	CG	HIS	170	20.954	33.142	53.377	1.00 25.38	AAAA
ATOM	1342	CD2	HIS	170	19.934	33.196	52.487	1.00 19.33	AAAA
ATOM	1343	ND1	HIS	170	21.308	34.448	53.638	1.00 18.17	AAAA
ATOM	1344		HIS	170	20.535	35.257	52.935	1.00 30.34	AAAA
				170	19.692	34.523	52.229	1.00 17.51	AAAA
MOTA	1345		HIS						
ATOM	1346	С	HIS	170	21.781	30.413	55.967	1.00 16.72	AAAA
ATOM	1347	0	HIS	170	22.827	30.511	56.610	1.00 15.92	AAAA
MOTA	1348	N	HIS	171	21.209	29.245	55.682	1.00 15.28	AAAA
ATOM	1349	CA	HIS	171	21.751	27.961	56.123	1.00 12.53	AAAA
			HIS	171	20.702	26.878	55.814	1.00 14.09	AAAA
MOTA	1350	CB							AAAA
MOTA	1351	CG	HIS	171	21.180	25.468	55.980	1.00 17.27	
ATOM	1352	CD2	HIS	171	21.249	24.447	55.090	1.00 12.48	AAAA
ATOM	1353	ND1	HIS	171	21.622	24.956	57.181	1.00 26.73	AAAA
ATOM	1354	CE1	HIS	171 -	21.948	23.685	57.021	1.00 15.98	AAAA
ATOM	1355	NE2	HIS	171	21.729	23.352	55.761	1.00 20.03	AAAA
						27.602	55.498	1.00 15.55	AAAA
MOTA	1356	С	HIS	171	23.107				
ATOM	1357	0	HIS	171	23.318	27.784	54.298	1.00 17.03	AAAA
MOTA	1358	N	CYS	172	24.026	27.105	56.323	1.00 14.33	AAAA
MOTA	1359	CA	CYS	172	25.350	26.675	55.866	1.00 13.65	AAAA
MOTA	1360	CB	CYS	172	26.330	26.631	57.054	1.00 12.99	AAAA
				172	25.680	25.826	58.551	1.00 17.17	AAAA
ATOM	1361	SG	CYS						AAAA
MOTA	1362	С	CYS	172	25.212	25.274	55.257	1.00 16.52	
MOTA	1363	0	CYS	172	25.750	24.297	55.783	1.00 14.95	AAAA
ATOM	1364	N	ASP	173	24.516	25.173	54.130	1.00 15.42	AAAA
ATOM	1365	CA	ASP	173	24.302	23.865	53.531	1.00 14.75	AAAA:
	1366	CB	ASP	173	23.339	23.956	52.332	1.00 17.73	AAAA
ATOM					23.765	24.966	51.283	1.00 22.84	AAAA
ATOM	1367	CG	ASP	173					AAAA
ATOM	1368	OD1	ASP	173	23.106	24.998	50.216	1.00 18.68	
ATOM	1369	OD2	ASP	173	24.730	25.728	51.504	1.00 15.34	AAAA
ATOM	1370	С	ASP	173	25.590	23.145	53.149	1.00 16.39	AAAA
ATOM	1371	ŏ	ASP	173	25.684	21.922	53.279		AAAA
					26.583	23.912	52.705	1.00 15.58	AAAA
MOTA	1372	13	GLY	174					AAAA
ATOM	1373	CA	GLY	174		23.346	52.360	1.00 13.97	
ATOM	1374	С.	GLY	174	28.508	22.723	53.595	1.00 18.44	AAAA
ATOM	1375	0	GLY	174	28.970	21.586	53.540	1.00 15.48	AAAA
ATOM	1376	N	VAL	175	28.554	23.456	54.706	1.00 16.84	AAAA
					29.136	22.923	55.946	1.00 16.54	AAAA
ATOM	1377		- VAL	175					AAAA
MOTA	1378	CB	VAL	175	29.201	24.031	57.037	1.00 15.88	
ATOM	1379	CG1	VAL	175	29.927	23.507	58.307	1.00 15.35	AAAA
ATOM	1380		VAL	175	29.923	25.258	56.476	1.00 15.62	AAAA
		C	VAL	175	28.318	21.720	56.467	1.00 19.21	AAAA
ATOM	1381					20.735	56.961	1.00 17.75	AAAA
ATOM	1382	0	VAL	175	28'. 876				
ATOM	1383	N	GLN	176	26.996	21.798	56.367	1.00 17.74	AAAA
ATOM	1384	CA	GLN	176	26.164	20.685	56.832	1.00 15.66	AAAA
ATOM	1385	CB	GLN	176	24.678	20.973	56.595	1.00 16.64	AAAA
ATOM	1386	CG	GLN	176	23.789	19.788	56.952	1.00 17.00	AAAA
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					22.325	20.106	56.884	1.00 21.52	AAAA
MOTA	1387		GLN	176		21.016	57.567	1.00 21.72	AAAA
MOTA	1388	OE1 (SLN	176	21.850			1.00 20.30	AAAA
MOTA	1389	NE2	GLN	176	21.581	19.348			
ATOM	1390		GLN	176	26.527	19.387		1.00 16.33	AAAA
			GLN	176	26.751	18.354		1.00 17.46	AAAA
MOTA	1391	-		177	26.581	19.443	54.799	1.00 22.24	AAAA .
MOTA	1392		GLU		26.909	18.251		1.00 19.67	AAAA
MOTA	1393		GLU	177			52.533	1.00 15.55	AAAA
MOTA	1394	CB (GLU	177	26.857	18.587		1.00 20.24	AAAA
MOTA	1395	CG	GLU	177	27.131	17.388	51.623		AAAA
ATOM	1396	CD	GLU	177	26.960	17.740	50.159	1.00 27.00	
	1397	OE1		177	27.974	17.935	49.450	1.00 30.23	AAAA
ATOM			GLU	177	25.796	17.853	49.725	1.00 26.89	AAAA
MOTA	1398			177	28.284	17.713	54.376	1.00 20.42	AAAA
MOTA	1399		GLU		28.486	16.503	54.527	1.00 17.05	AAAA
ATOM	1400	0	GLU	177			54.527	1.00 19.67	AAAA
MOTA	1401	N ·	ALA	1.78	29.233	18.626		1.00 18.18	AAAA
ATOM	1402	CA	ALA	178	30.611	18.259	54.839		AAAA
ATOM	1403		ALA	178	31.464	19.519	54.918	1.00 12.76	
	1404		ALA	178	30.806	17.418	56.106	1.00 17.56	AAAA
MOTA				178	31.690	16.555	56.167	1.00 17.72	AAAA
MOTA	1405		ALA		29.981	17.656	57.116	1.00 18.82	AAAA
ATOM	1406	N	PHE	179		16.945	58.379	1.00 20.26	AAAA
MOTA	1407	CA	PHE	179	30.124			1.00 13.17	AAAA
ATOM	1408	CB	PHE	179	30.554	17.948	59.439		AAAA
ATOM	1409	CG	PHE	179	31.779	18.693	59.048	1.00 16.28	
	1410		PHE	179	31.705	20.017	58.610	1.00 13.77	AAAA
ATOM		CD2		179	33.002	18.031	58.995	1.00 15.57	AAAA
MOTA	1411			179	32.845	20.673	58.114	1.00 20.03	AAAA
MOTA	1412		PHE		34.145	18.677	58.500	1.00 20.30	AAAA
ATOM	1413	CE2		179	-		58.058	1.00 19.51	AAAA
MOTA	1414	CZ	PHE	179	34.060	20.002		1.00 18.52	AAAA
ATOM	1415	Ç	PHE	179	28.882	16.219	58.833	1.00 20.21	AAAA
ATOM	1416	0	PHE	179	28.773	15.828	60.000	1.00 20.21	AAAA
ATOM	1417	N	TYR	180	27.969	16.016	57.895	1.00 18.33	
	1418	CA	TYR	180	26.698	15.379	58.176	1.00 19.93	AAAA
ATOM			TYR	180	25.874	15.310	56.894	1.00 20.97	AAAA
MOTA	1419	CB		180	24.402	15.341	57.159	1.00 19.80	AAAA
MOTA	1420	CG	TYR		23.565	14.337	56.686	1.00 23.87	AAAA
MOTA	1421		TYR	180		14.391	56.898	1.00 21.32	AAAA
ATOM	1422		TYR	180	22.203		57.865	1.00 19.02	AAAA
MOTA	1423	CD2	TYR	180	23.831	16.416		1.00 26.84	AAAA
ATOM	1424	CE2	TYR	180	22.470	16.482	58.084		AAAA
ATOM	1425	CZ	TYR	180	21.659	15.462	57.594	1.00 30.54	
	1426	он	TYR	180	20.310	15.514	57.794	1.00 22.81	AAAA
MOTA			TYR	180	26.855	13.970	58.737	1.00 22.61	AAAA
MOTA	1427	C		180	26.064	13.526	59.579	1.00 23.44	AAAA
ATOM	1428	0	TYR		27.893	13.298	58.253	1.00 22.27	AAAA
ATOM	1429	N	ASP	181		11.920	58.590	1.00 33.84	AAAA
MOTA	1430	CA	ASP	181	28.245		57.339	1.00 41.74	AAAA
MOTA	1431	CB	ASP	181	28.916	11.318		1.00 57.71	AAAA
ATOM	1432	CG	ASP	181	30.035	10.363	57.662		AAAA
ATOM	1433		ASP	181	30.999	10.780		1.00 61.40	
	1434		ASP	181	29.965	9.197	57.221	1.00 65.77	AAAA
ATOM			ASP	181	29.107	11.654	59.838	1.00 30.21	AAAA
ATOM	1435	C		181	29.307	10.497		1.00 27.84	AAAA
MOTA	1436	С	ASP		29.615	12.696		1.00 27.53	AAAA
MOTA	1437	N	THR	182		12.466		1.00 21.19	AAAA
MOTA	1438	CA	THR	182	30.472			1.00 26.55	AAAA
ATOM	1439	CB	THR	182	31.918	12.977		1.00 25.62	AAAA
ATOM	1440	OG1	THR	182	32.729				AAAA
	1441	CG2		182	31.922	14.471	61.037		
MOTA		C	THR	182	30.010	13.050	62.954	1.00 25:02	AAAA
MOTA	1442			182	29.306		62.992	1.00 23:56	AAAA
MOTA	1443	0	THR		30.434		-		AAAA
MOTA	1444	N	ASP	183					AAAA
ATCM	1445	CA	ASP	183	30.086				AAAA
ATOM	1446	CB	ASP	183	29.735				AAAA
	1447		ASP	183	30.920				AAAA
ATCM	1448		ASP	183	31.667	10.502			
MOTA			ASP	183	31.095		67.675		AAAA
MOTA	1449			183	31.257			1.00 16.66	AAAA
MOTE	1450	_	ASP		31.236				AAAA
ATOM	1451		ASP	183	32.286		•		AAAA ·
ATOM	1452	N	GLN	184	24.200	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,	-	•
			•	•					

MOTA	1453	CA	GLN	184	33.437	14.672	65.590	1.00 17.65	AAAA
	1454	CB	GLN	184	34.701	14.243	64.866	1.00 21.36	AAAA
ATOM			_	184	35.068	12.790	65.102	1.00 27.38	AAAA
ATOM	1455	CG	GLN			12.476	64.691	1.00 31.96	AAAA
MOTA	1456	CD	GLN	184	36.485		63.573	1.00 29.90	AAAA
MOTA	1457	OE1		184	36.899	12.760			
ATOM	1458	NE2	GLN	184	37.239	11 ⁻ . 878	65.599	1.00 31.84	AAAA
ATOM	1459	С	GLN	184	33.207	16.165	65.382	1.00 18.54	AAAA
ATOM	1460	o	GLN	184	33.881	17.009	65.972	1.00 18.11	AAAA
			VAL	185	32.258	16.481	64.519	1.00 19.18	AAAA
MOTA	1461	N			31.934	17.872	64.267	1.00 21.57	AAAA
MOTA	1462	CA	VAL	185		18.264	62.807	1.00 22.64	AAAA
MOTA	1463	CB	VAL	185	. 32.261			1.00 16.26	AAAA
MOTA	1464	CG1	VAL	185	31.994	19.768	62.591		
MOTA	1465	CG2	VAL	185	33.722	17.924	62.500	1.00 16.77	AAAA
ATOM	1466	С	VAL	185	30.449	18.035	64.523	1.00 16.91	AAAA
MOTA	1467	ō	VAL	185	29.658	17.156	64.179	1.00 20.79	AAAA
		N	PHE .	186	30.081	19.146	65.153	1.00 18.73	AAAA
ATOM	1468				28.687	19.446	65.435	1.00 16.22	AAAA
ATOM	1469	CA	PHE	186		19.559	66.952	1.00 16.83	AAAA
ATOM	1470	CB	PHE	186	28.432			1.00 17.96	AAAA
MOTA	1471	CG	PHE	186	26.976	19.682	67.299		
MOTA	1472	CD1	PHE	186	26.319	18.656	67.968	1.00 23.24	AAAA
MOTA	1473	CD2	PHE	186	26.240	20.797	66.904	1.00 15.41	AAAA
ATOM	1474		PHE	186	24:953	18.738	68.235	1.00 18.99	AAAA
	1475		PHE	186	24.879	20.887	67.168	1.00 24.05	AAAA
MOTA			PHE	186	24.234	19.846	67.838	1.00 22.93	AAAA
ATOM	1476	CZ			28.437	20.789	64.778	1.00 17.16	AAAA
MOTA	1477	С	PHE	186			64.993	1.00 19.37	AAAA
ATOM	1478	0	PHE	186	29.192	21.725		1.00 19.57	AAAA
MOTA	1479	N	VAL	187	27.391	20.874	63.961		
MOTA	.1480	CA	VAL	187	27.075	22.116	63.277	1.00 17.74	AAAA
ATOM	1481	CB	VAL	187	27.010	21.914	61.720	1.00 18.65	AAAA
ATOM	1482		VAL	187	26.578	23.211	61.024	1.00 17.31	AAAA
	1483		VAL	187	28.359	21.453	61.194	1.00 16.65 .	AAAA
ATOM			VAL	187	25.732	22.637	63.746	1.00 18.46	AAAA
MOTA	1484	C			24.752	21.903	63.764	1.00 20.64	AAAA
MOTA	1485	0	VAL	187		23.899	64.150	1.00 14.42	AAAA
MOTA	1486	N	LEU	188	25.708				AAAA
MOTA	1487	CA	LEU	188	24.482	24.563	64.567		AAAA
MOTA	1488	CB	LEU	188	24.568	25.070	66.009	1.00 13.98	
ATOM	1489	CG	LEU	188	23.522	26.119	66.450	1.00 13.66	AAAA
MOTA	1490	CD1	LEU	188	22.103	25.556	66.401	1.00 15.55	AAAA
ATOM	1491		LEU	188	23.844	26.585	67.861	1.00 16.40	AAAA
	1492	C	LEU	188	24.272	25.756	63.667	1.00 20.01	AAAA
ATOM			LEU	188	25.164	26.595	63.506	1.00 18.86	AAAA
ATOM	1493	0			23.106	25.845	63.057	1.00 14.46	AAAÀ
ATOM	1494	N	SER	189			62.230	1.00 14.56	AAAA
ATOM	1495	CA	SER	189	22.841	27.011		1.00 15.55	AAAA
MOTA	1496	CB	SER	189	22.896	26.668	60.737		AAAA
MOTA	1497	OG	SER	189	22.619	27.851	60.008	1.00 14.09	
ATOM	1498	С	SER	189	21.487	27.606	62.508	1.00 15.24	AAAA
ATOM	1499	0	SER	189	20.509	26.885	62.578	1.00 21.46	AAAA
MOTA	1500	Ŋ	LEU	190	21.423	28.921	62.690	1.00 14.92	AAAA
	1501	CA	LEU	190	20.128	29.572	62.826	1.00 15.54	AAAA
MOTA					20.084	30.663	63.906	1.00 21.02	AAAA
ATOM	1502	CB	LEU	190		30.532	65.339	1.00 30.17	AAAA
MOTA	1503	CG	LEU	190	20.594			1.00 19.75	AAAA
MOTA	1504		LEU	190	19.736	31.437	66.210		AAAA
ATOM	1505	CD2	LEU	190	20.547	29.130	65.831	1.00 19.08	
ATOM	1506	С	LEU	190	20.035		61.456	1.00 14.31	AAAA
ATOM	1507	ō	LEU	190	21.031	30.752	60.951	1.00 15.43	AAAA
	1508	N	HIS	191	18.855	30.285	60.856	1.00 16.88	AAAA
ATOM			HIS	191	18.732	30.884	59.535	1.00 14.34	AAAA
ATOM	1509	CA			19.506	30.015	58.539	1.00 17.34	AAAA
MOTA	1510	CB	HIS	191		28.546	58.697	1.00 14.27	AAAA
ATOM	1511	CG	HIS	191	19.229				AAAA
ATOM	1512		HIS		19.941		59.319	1.00 9.60	AAAA
ATOM	1513	NDI	HIS	191	18.073	27.940			
ATCM	1514	CE1	HIS	191	18.088			1.00 17.22	AAAA
ATOM	1515		HIS		19.212	26.415	59.232	1.00 20.70	AAAA
	1516	C	HIS		17.277		59.110	1.00 16.19	AAAA
ATOM		Ö	HIS		16.381				AAAA
ATOM	1517				17.044				AAAA
ATCM	1518	N	GLN	137	11.094	51.750			

- mov	1519	CA	GLN	192	15.683			00 16.33	AAAA
ATOM ATOM	1520	CE	GLN	192	15.669	32.871		00 17.07	AAAA AAAA
ATOM	1521	CG	GLN	192	16.174	34.270		00 18.15 00 14.74	AAAA
ATOM	1522	CD	GLN	192	16.408	34.965		1.00 14.74	AAAA
ATOM	1523	OE1	GLN	192	15.490	35.566	3	1.00 23.44	AAAA
ATOM -	1524	NE2	GLN	192	17.630	34.839	54.665 3 57.072 3	1.00 15.06	AAAA
ATOM	1525	С	GLN	192	15.262	30.584	56.514	1.00 19.23	AAAA
MOTA	1526	0	GLN	192	16.071	29.843 30.223		1.00 15.63	AAAA
MOTA	1527	11	SER	193	14.007 13.561	28.907		1.00 13.84	AAAA.
ATCM	1528	CA	SER	193	12.097	28.677	57.284	1.00 17.28	AAAA
MOTA	1529	CB	SER	193	11.639	27.439	56.750	1.00 17.58	AAAA
MOTA	1530	OG	SER	193 193	13.687	28.704	55.350 -	1.00 11.80	AAAA
MOTA	1531	C	SER SER	193	13.400	29.601		1.00 18.44	AAAA
MOTA	1532	И О	PRO	194	14.103	27.505		1.00 14.59	AAAA
ATOM	1533 1534	CD	PRO	194	14.335	26.325		1.00 19.22	AAAA AAAA
MOTA	1535	CA	PRO	194	14.268	27.143	-	1.00 15.30	AAAA
MOTA MOTA	1536	CB	PRO	194	14.892	25.737		1.00 18.33 1.00 22.34	AAAA
MOTA	1537	CG	PRO	194	15.359	25.587		1.00 22.34	AAAA
ATOM	1538	C	PRO	194	12.880	27.104	52.866 51.640	1.00 19.43	AAAA
MOTA	1539	0	PRO	194	12.757	27.003 27.151	53.681	1.00 20.57	AAAA
MOTA	1540	N	GLU	195	11.828 10.483	27.131	53.001	1.00 30.15	AAAA
MOTA	1541	CA	GLU	195	9.386		54.173	1.00 31.91	AAAA
MOTA	1542	CB	GLU	195 195	8.987		54.879	1.00 45.60	AAAA
ATOM	1543	CG	GLU	195	7.880		54.174	1.00 34.45	AAAA
MOTA	1544	CD	GLU GLU	195	7.635		54.612	1.00 43.98	AAAA
ATOM	1545	OEI	GLU	195	7.241		53.210	1.00 38.39	AAAA
MOTA	1546 1547	C	GLU	195	10.333		52.318	1.00 26.92	ĀĀĀĀ ĀĀĀĀ
MOTA MOTA	1548	ō	GLU	195	9.522		51.395	1.00 24.59 1.00 18.16	AAAA
ATOM	1549	N	TYR	196	11.116		52.669	1.00 15.10	AAAA
MOTA	1550	CA	TYR	196	11.024		51.922 52.690	1.00 20.01	AAAA
ATOM	1551	CB	TYR	196	10.208		53.932	1.00 19.77	AAAA
ATOM	1552	CG	TYR	196	10.868 11.779		53.853	1.00 18.24	AAAA
MOTA	1553	CD:	1 TYR	196	12.40		54.988	1.00 18.50	AAAA
ATOM	1554		1 TYR	196 196 .	10 501		55.185	1.00 18.12	AAAA
MOTA	1555	CD:		196	11.22		56.339	1.00 21.09	AAAA
MOTA	1556 1557	CZ.	TYR	196	12.12		56.235	1.00 20.39	AAAA AAAA
MOTA MOTA	1558	OH	TYR	196	12.75	33.784	57.367	1.00 16.20	AAAA
ATOM	1559	c	TYR	196	12.34			1.00 16.89 1.00 23.08	AAAA
ATOM	1560	Ö	TYR	196	12.33			1.00 23.00	AAAA
ATOM	1561	N	ALA	197	13.46	6 30.817		1.00 20.26	AAAA
ATOM	1562	CA		197	14.75			1.00 20.74	AAAA
ATOM	1563			197	15.31 15.81			1.00 13.51	AAAA
MOTA	1564		ALA	197 197	15.78			1)0 19.35	AAAA
MOTA	1565		ALA	198	16.75		50.257	1. 70 18.01	AAAA
ATOM	1566		PHE	198	17.86		49.782	1.00 17.97	AAAA AAAA
ATOM	1567 1568			198	18.92			1.00 20.38	AAAA
MOTA MOTA	1569			198	20.09			1.00 23.61	AAAA
ATOM	1570		1 PHE	198	20.03			1.00 29.71	AAAA
ATOM	1571		2 PHE	198	21.22		49.321 3 46.719	1.00 30.39	AAAA
MOTA				198	21.09			1.00 23.17	AAAA
ATOM				198	22.29			1.00 22.74	AAAA
ATOM				198	22.21 18.45			1.00 16.02	aaaa
atom			PHE.	198	18.5			1.00 20.95	AAAA
ATCM			PHE	198	18.94			1.00 19.92	AAAA
ATOM			PRO	199 199	19.60		8 52.074	1.00 17.86	<u> </u>
MOTA				199	18.99		8 49.744		AAAA 4444 · ·
ATOM					20.10	26.34	4 50.095		4444 4444
ATOM			_		19.8	13 26.08	7 51.534		AAAA
ATOM		_	-		17.7	10 26.59			AAAA
atom Atom					17.7				AAAA
(A 1 O 2) (A 7 O 2)		4 N			16.6	21 26.79	5 50.054	1.00 20.32	

43/263 Figure 16-25

ATOM	1585	CA	PHE	200	15.319	26.166		1.00 20.27	AAAA
ATOM	1586	CB	PHE	200	14.840	26.533	48.346	1.00 19.77	AAAA
ATOM	1587	CG	PHE	200	14.752	27.999	48.082	1.00 18.06	AAAA
ATOM	1588	CDl		200	15.742	28.644	47.346	1.00 18.97 1.00 19.06	AAAA AAAA
MOTA	1589	CD2		200	13.654	28.736 30.003	48.519 47.042	1.00 13.00	AAAA
MOTA	1590	CE1		200	15.635 13.539	30.003	48.221	1.00 22.60	AAAA
MOTA	1591	CE2	PHE	200 200	14.527	30.736	47.482	1.00 18.93	AAAA
MOTA	1592 1593	CZ C	PHE	200	15.294	24.637	49.845	1.00 18.44	AAAA
MOTA MOTA	1594	0	PHE	200	14.302	24.049	50.272	1.00 20.74	AAAA
ATOM	1595	N	GLU	201	16.384	24.004	49.418	1.00 20.77	AAAA
ATOM	1596	CA	GLU	201	16.522	22.542	49.399	1.00 27.34	AAAA
ATOM	1597	CB	GLU	201	17.498	22.146	48.284	1.00 28.99 1.00 34.82	. AAAA AAAA
MOTA	1598	CG	GLÚ	201	17.024	22.458	46.881	1.00 34.82	AAAA
MOTA	1599	CD	GLU	201	18.123 18.701	22.265 21.155	45.848 45.769	1.00 32.40	AAAA
MOTA	1600		GLU	201	18.701	23.230	45.111	1.00 40.08	AAAA
MOTA	1601 1602		GLU GLU	201 201	17.007	21.891	50.695	1.00 23.51	AAAA
ATOM ATOM	1602	С О	GLU	201	16.845	20.689	50.886	1.00 23.17	AAAA
ATOM	1604	N	LYS	202	17.619	22.681	51.571	1.00 20.03	AAAA
MOTA	1605	CA	LYS	202	18.178	22.177	52.829	1.00 17.01	AAAA
MOTA	1606	CB	LYS	202	19.666	21.862	52.634	1.00 19.24	AAAA AAAA
MOTA	1607	CG	LYS	202	19.903	20.769	51.611 50.648	1.00 36.04 1.00 45.11	AAAA
MOTA	1608	CD	LYS	202	20.997 21.060	21.162 20.209	49.463	1.00 55.83	AAAA
MOTA	1609	CE	LYS LYS	202 202	22.024	20.662	48.422	1.00 28.09	AAAA
MOTA	1610 1611	NZ C	LYS	202	18.016	23.240	53.899	1.00 17.02	AAAA
MOTA MOTA	1612	Ö	LYS	202	17.705	24.381	53.585	1.00 20.20	AAAA
ATOM	1613	N	GLY	203	18.232	22.875	55.160	1.00 22.94	AAAA
ATOM	1614	CA	GLY	203	18.064	23.850	56.223	1.00 19.38 1.00 20.48	AAAA AAAA
MOTA	`1615	C .	GLY	203	16.874	23.564	57.128 58.070	1.00 18.55	AAAA
MOTA	1616	0	GLY	203	16.607 16.150	24.312 22.484	56.852	1.00 15.42	AAAA
MOTA	1617	N	PHE PHE	204 204	14.983	22.143	57.670	1.00 20.73	AAAA
MOTA	1618 1619	CA CB	PHE	204	14.018	21.212	56.903	1.00 19.97	AAAA
MOTA MOTA	1620	CG	PHE	204	13.441	21.838	55.667	1.00 19.63	AAAA
ATOM	1621		PHE	204	14.137	21.801	54.459	1.00 24.96	AAAA AAAA
ATOM	1622		PHE	204	12.230	22.523	55.725	1.00 18.92	AAAA
MOTA	1623		PHE	204	13.636	22.438	53.327 54.597	1.00 20.86	AAAA
MOTA	1624		PHE	204	11.720 12.422	23.169 23.127	53.400	1.00 23.66	AAAA
ATOM	1625 1626	CZ C	PHE	204 204	15.376	21.513	59.006	1.00 18.73	AAAA
MOTA MOTA	1627	0	PHE	204	16.415	20.851	59.131	1.00 20.18	AAAA
MOTA	1628	N	LEU	205	14.518	21.726	59.994	1.00 19.46	AAAA
ATOM	1629	CA	LEU	205	14.727	21.244	61.356	1.00 21.09	AAAA AAAA
ATOM	1630	CB	LEU	205	13.547		62.233 63.693	1.00 23.44 1.00 23.23	AAAA
MOTA	1631	CG	LEU	205	13.506		64.445	1.00 24.06	AAAA
MOTA	1632		LEU	205 205	14.717 12.224		64.312	1.00 30.63	AAAA
ATOM	1633 1634	C D Z	LEU	205	14.943		61.489	1.00 23.53	AAAA
MOTA MOTA	1635	0	LEU	205	15.659		62.381	1.00 21.28	AAAA
ATOM	1636	N	GLU	206	14.356	18.959	60.591	1.00 21.59	AAAA
ATOM	1637	CA	GLU	206	14.487		60.686	1.00 27.89	AAAA AAAA
ATOM	1638	CB	GLU	206			59.928 59.942		AAAA
ATOM	1639	CG	GLU	206	12.060	17.615 18.832			AAAA
MOTA	1640	CD	GLU	206	12.169 11.360				AAAA
MOTA	1641		L GLU 2 GLU	206 206	13.076			1.00 63.58	AAAA
MOTA	1642 1643	C C	GLU	206	15.819	_		1.00 22.86	AAAA
MOTA MOTA	1644	ò	GLU		16.071	. 15.753	60.286	1.00 21.21	AAAA
MOTA	1645	N	GLU		16.666	17.816			AAAA AAAA
ATOM	1646		GLU	207	17.976				AAAA
ATOM	1647	СВ	GLU		18.483				AAAA
MOTA	1648		GLU		17.682				AAAA
ATOM	1649				17.687 18.738				AAAA
MOTA	1650	OE.	1 GLU	207	10./30	. 20.102	-		•

44/263Figure 16-26

		OE2	GLU	207	16.646	19.854	55.396	1.00 15.50	አልልአ
ATOM	1651		GLU	207	18.921	17.379	60.350	1.00 28.83	AAAA
ATOM	1652	0	GLU	207	19.506	18.416	60.687	1.00 18.11	AAAA
ATOM	1653 1654	N	ILE	208	19.081	16.218	60.988	1.00 21.60	AAAA
ATOM	1655	CA	ILE	208	19.930	16.138	62.168	1.00 22.37	AAAA
MOTA MOTA	1656	CB	ILE	208	19.113	15.652	63.403	1.00 28.84	AAAA
ATOM	1657		ILE	208	19.968	15.693	64.653	1.00 43.26	AAAA
ATOM	1658		ILE	208	17.905	16.561	63.625	1.00 21.61	AAAA
ATOM	1659	CD1	ILE	.208	17.029	16.160	64.786	1.00 41.40	AAAA
ATOM	1660	C	ILE	208	21.156	15.260	61.981	1.00 24.74	ሕ <mark>ል</mark> ሕሕ
ATOM	1661	0	ILE	208	21.785	14.850	62.943	1.00 22.68	алал Алал
ATOM	1662	N	GLY	209	21.512	14.969	60.738	1.00 22.80 1.00 20.43	AAAA
MOTA	1663	CA	GLY	209	22.690	14.153	60.535 60.037	1.00 25.56	AAAA
ATOM	1664	C	GLY	209	22.342	12.769	59.850	1.00 25.22	AAAA
MOTA	1665	0	GLY	209	21.165	12.447 11.944	59.888	1.00 26.07	AAAA
ATOM	1666	N	GLU	210	23.373 23.235	10.601	59.348	1.00 25.78	AAAA
MOTA	1667	CA	GLU	210	23.404	10.731	57.835	1.00 28.27	AAAA
MOTA	1668	CB	GLU	210	23.041	9.569	56.965	1.00 56.41	AAAA
MOTA	1669	CG	GLU	210 210	23.170	9.952	55.495	1.00 55.37	AAAA
ATOM	1670	CD	GLU	210	24.290	10.327	55.075	1.00 52.00	AAAA
MOTA	1671	OE2		210	22.153	9.894	54.768	1.00 73.24	AAAA
ATOM	1672 1673	C	GLU	210	24.329	9.709	59.936	1.00 31.85	AAAA
ATOM	1674	0	GLU	210	25.447	10.170	60.217	1.00 28.85	AAAA
ATOM	1675	11	GLY	211	24.012	8.431	60.121	1.00 27.84	AAAA
MOTA MOTA	1676	CA	GLY	211	24.991	7.502	60.657	1.00 26.25	ÀAAA
ATOM	1677	C	GLY	211	25.545	7.942	61.995	1.00 27.79	ሕሕሕ ሕልልሕ
ATOM	1678	ō	GLY	211	24.788	8.324	62.874	1.00 28.66	ሌሌሌ ሌሌሌ
ATOM	1679	N	LYS	212	26.865	7.880	62.150	1.00 34.62 1.00 34.39	AAAA
ATOM	1680	CA	LYS	212	27.512	8.287	63.393 63.273	1.00 40.40	AAAA
ATOM	1681	CB	LYS	212	29.029	8.132	62.996	1.00 53.97	AAAA
MOTA	1682	CG	LYS	212	29.505 29.139	6.712 5.770	64.131	1.00 61.93	AAAA
MOTA	1683	CD	LYS	212	29.139	4.347	63.863	1.00 62.74	አ <mark>አ</mark> አሉ
MOTA	1684	CE	LYS	212	31.091	4.258	63.711	1.00 70.11	AAAA
MOTA	1685	NZ	LYS	212 212	27.181	9.741	63.725	1.00 36.04	AAAA
ATOM	1686	C	LYS LYS	212	27.109		64.897	1.00 28.34	AAAA
MOTA	1687 1688	0	GLY	213	26.959		62.688	1.00 31.47	AAAA
MOTA	1689	CA	GLY	213	26.648	11.948	62.898	1.00 31.68	aaaa
MOTA MOTA	1690	C	GLY	213	25.189		63.142	1.00 28.78	аааа аааа
ATOM	1691	ō	GLY	213	24.840		63.259	1.00 22.56	AAAA
ATOM	1692	N	LYS	214	24.317		63.222	1.00 28.54 1.00 31.11	AAAA
ATOM	1693	CA	LYS	214	22.905		63.463 63.325	1.00 31.11	AAAA
ATOM	1694	CB	LYS	214	22.080		63.323	1.00 38.15	AAAA
ATOM	1695	CG	LYS	214	20.583			1.00 40.49	AAAA
MOTA	1696	CD	LYS	214	19.968	9.115		1.00 48.02	AAAA
MOTA	1697	CE	LYS	214	18.490 17.927			1.00 44.99	AAAA
ATOM	1698	NZ	LYS	214	22.834			1.00 26.90	AAAA
MOTA	1699	C	LYS	214 214	23.260			1.00 33.33	AAAA
MOTA	1700		LYS GLY	215	22.310			1.00 24.38	AAAA
MOTA	1701		GLY	215	22.230			1.00 26.03	AAAA
MOTA	1702 1703		GLY	215	23.298			1.00 27.03	AAAA
ATOM	1703		GLY	215	23.352				AAAA AAAA
MOTA MOTA	1705		TYR	.216	24.152		65.439		AAAA
ATOM	1706			216	25.21				AAAA
ATOM	1707			216	26.592				AAAA
ATOM	1708			216	26.90				AAAA
ATOM	1709		1 TYR	216	26.22				AAAA
ATOM	1710			216	26.45	12.660			AAAA
ATOM	1711	םם.		216	27.83	2 15.052			AAAA
ATOM	1712	CE		216	28.07	4 14.254			AAAA
MOTA	1713			216	27.37				AAAA
ATOM	1714			216	27.58 25.10		1 64.493		AAAA
ATOM			TYR	216	26.09				AAAA
* TOM	:716	5 0	TYR	216	20.03	, 10.01.			

45/263 Figure 16-27

					23.889	17.635	64.027	1.00 22.88	AAAA
MOTA	1717	N	ASN	217	23.621	18.729	63.109	1.00 22.60	AAAA
MOTA	1718	CA	ASN	217		-	61.671	1.00 16.61	AAAA
MOTA	1719	CB	ASN	217	23.453	18.240	60.695	1.00 17.16	AAAA
ATOM	1720	CG	ASN	217	23.233	19.387		1.00 20.23	AAAA
ATOM	1721	OD1	ASN	217	22.098	19.704	60.307	1.00 20.23	
MOTA	1722	ND2	ASN	217	24.320	20:032	60.309		AAAA
MOTA	1723.	С	ASN	217	22.311	19.296	63.630	1.00 17.65	AAAA
ATOM	1724	0	ASN	217	21.381	18,550	63.894	1.00 17.63	AAAA
ATOM	1725	N	LEU	218	22.236	20.610	63.793	1.00 21.68	AAAA
ATOM	1726	CA	LEU	218	21.014	21.197	64.320	1.00 21.20	AAAA
ATOM	1727	CB	LEU	218	- 21.186	21.547	65.808	1.00 17.73	AAAA
ATOM	1728	CG	LEU	218	19.906	21.702	66.647	1.00 32.30	AAAA
ATOM	1729	CD1		218	20.228	22.427	67.944	1.00 24.51	AAAA
MOTA	1730	CD2		218	18.862	22.464	65.903	1.00 40.08	AAAA
ATOM	1731	C	LEU	218	20.700	22.459	63.554	1.00 19.46	AAAA
MOTA	1732	ō	LEU	218	21.467	23.425	63.615-	1.00 16.70	AAAA
MOTA	1733	N	ASN	219	19.590	22.441	62.824	1.00 15.43	AAAA
MOTA	1734	CA	ASN	219	19.143	23.609	62.072	1.00 14.05	AAAA
ATOM	1735	CB	ASN	219	18.634	23.232	60.665	1.00 15.92	AAAA
	1736	CG	ASN	219	19.732	22.738	59.750	1.00 22.73	AAAA
ATOM	1737		ASN	219	20.861	23.232	59.802	1.00 17.90	AAAA
ATOM	1738		ASN	219	19.398	21.789	58.868	1.00 16.62	AAAA
MOTA	-		ASN	219	17.990	24.256	62.821	1.00 21.98	AAAA
MOTA	1739	С	ASN	219	17.075	23.569	63.262		AAAA
MOTA	1740	0		220	18.025	25.580	62.952	1.00 16.82	AAAA
MOTA	1741	N	ILE	220	16.951	26.298	63.640	1.00 13.22	AAAA
ATOM	1742	CA	ILE	220	17.522	27.115	64.823	1.00 15.70	AAAA
MOTA	1743	CB	ILE	220	16.411	27.912	65.479	1.00 15.18	AAAA
MOTA	1744		ILE	220	18.246	26.193	65.823	1.00 19.11	AAAA
MOTA	1745		ILE		17.350	25.259	66.632	1.00 22.75	AAAA
MOTA	1746		ILE	220	16.363	27.246	62.573	1.00 18.80	AAAA
MOTA	1747	C	ILE	220	16.810	28.386	62.419	1.00 15.52	AAAA
MOTA	1748	0	ILE	220	15.341	26.790	61.826	1.00 16.72	AAAA
MOTA	1749	N	PRO	221	14.612	25.518	61.906	1.00 18.83	AAAA
MOTA	1750	CD	PRO	221 ·	14.739	27.628	60.785	1.00 19.83	AAAA
MOTA	1751	CA	PRO	221	13.930	26.615	59.948	1.00 20.76	AAAA
ATOM	1752	CB	PRO	221	14.409	25.241	60.462	1.00 28.73	AAAA
MOTA	1753	CG	PRO	221	13.849	28.664	61.444	1.00 21.26	AAAA
MOTA	1754	C	PRO	221	13.061	28.318	62.314	1.00 22.46	AAAA
MOTA	1755	0	PRO	221	13.001	29.926	61.028	1.00 19.70	AAAA
MOTA	1756	N	LEU	222	13.209	31.018	61.612	1.00 21.62	AAAA
ATOM	1757	CA	LEU	222	14.163	31.972	62.319	1.00 16.46	AAAA
MOTA	1758	CB	LEU	222	14.868	31.232	63.466	1.00 18.65	AAAA
MOTA	1759	CG	LEU	222	16.026	32.072	64.014	1.00 21.32	AAAA
MOTA	1760		LEU	222	13.857	30.925	64.555	1.00 19.98	AAAA
MOTA	1761		LEU	222	12.350	31.763	60.590	1.00 19.68	AAAA
MOTA	1762	C	LEU	222	12.550	31.830	59.412	1.00 18.07	AAAA
ATOM	1763	0	LEU	222	11.220	32.329	61.042	1.00 19.37	AAAA
ATOM	1764	И	PRO	223	10.723	32.249	62.431	1.00 17.38	AAAA
ATOM	1765	CD	PRO	223	10.264	33.065	60.203	1.00 19.59	AAAA
ATOM	1766	CA	PRO	223	9.006	33.083	61.074		AAAA
ATCM	1767	CB	PRO	223	9.608	33.304	62.441	1.00 21.96	AAAA
MOTA	1768	CG	PRO	223	10.606	34.458	59.723	1.00 23.15	AAAA.
ATOM	1769	С	PRO	223		35.101	60.214	1.00 15.81	AAAA
MOTA	1770	0	PRO	223	11.525 9.830	34.912	58.745	1.00 16.41	AAAA
MOTA	1771	N	· LYS	224	9.975	36.254	58.200	1.00 16.11	AAAA
ATOM	1772	CA	LYS	224		36.446		1.00 20.34	AAAA
MOTA	1773	CB	LYS	224	9.002			1.00 19.33	AAAA
ATOM	1774	CG	LYS	224	9.163	35.441		1.00 25.49	AAAA
MOTA	1775	CD	LYS	224	8.109	35.687		1.00 24.14	AAAA
ATOM	1776	CE	LYS	224	8.209	34.624			AAAA
ATOM	1777	NZ	LYS	224	7.207	34.843			AAAA
MOTA	1778	С	LYS		9.638	37.289		_	AAAA
ATOM	1779	0	LYS		8.819	37.032			
ATOM	1780	N	GLY		10.239	38.469			AAAA
MOTA	1781	CA	GLY		9.974				AAAA
MOTA	1782	С	GLY	225	10.556	39.286	. 21.30/	1.00 20.00	•
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	1707	^ C	T V	225	10	.128	39.912	62.468	1.00	20.66		AAAA
ATOM	1783	-	LI	226		. 540	38.395		1.00	20.37		AAAA
MOTA	1784		EU EU	226		.154	38.063	62.893	1.00	18.71	٠.	AAAA
ATOM	1785		EU	226	-	.354	37.145	62.670	1.00	13.63		AAAA
MOTA	1786			226		.836	36.443	63.939	1.00	18.44		AAAA
MOTA	1787		EU			2.834	35.329	64.243	1.00	18.09		AAAA
ATOM -	1788	CD1 L		226		5.232	35.844	63.741	1.00	17.96		AAAA
ATOM	1789	CD2 L		226		2.649	39.309	63.642	1.00	19.84		AAAA
ATOM	1790		EU	226		3.320	40.151	63.052		18.13		AAAA
MOTA	1791		.EU	226		2.336	39.421	64.932	1.00	23.30		AAAA
ATOM	1792		SN	227		2.815	40.571	65.692		20.88		AAAA
MOTA	1793		ASN	227		1.682	41.261	66.485		21.73		AAAA
MOTA	1794		SN	.227		1.061	40.368	67.546 -		20.47		AAAA
MOTA	1795		ASN	227		1.762	39.736	68.341		23.80		AAAA
MOTA	1796	OD1 ,2		227		9.729	40.340	67.581		21.08		AAAA
MOTA	1797	ND2		227		3.950	40.152	66.612		25.24	-	AAAA
MOTA	1798		SN	227		4.282	38.965	66.702	1.00	18.54		AAAA
ATOM	1799		ASN	227		4.547	41.124	67.296	1.00	19.41		AAAA
MOTA	1800		ASP	228		5.682	40.844	68.169		22.15		AAAA
MOTA	1801		ASP	228		6.208	42.141	68.802		16.82		AAAA
MOTA	1802		ASP	228		6.852	43.060	67.796	1.00	30.68		AAAA
MOTA	1803		ASP	228		7.182	42.576	66.690		23.87		AAAA
MOTA	1804	OD1 A		228	_	7.053	44.256	68.123	1.00	25.02		AAAA
ATOM	1805	OD2		228		5.440	39.835	69.265		18.83		AAAA
MOTA	1806		ASP	228		6.298	39.002	69.536		16.28		AAAA
MOTA	1807		ASP	228		4.291	39.930	69.928		20.73		AAAA
MOTA	1808		ASN	229		3.975	39.015	71.007		21.75		AAAA
MOTA	1809		ASN	229	_	2.706	39.483	71.712		19.46		AAAA
MOTA	1810		N2.K	229		2.943	40.738	72.516		27.14		AAAA
MOTA	1811		ASN	229		3.588	40.691	73.556		33.03		AAAA
MOTA	1812	OD1		229		2.464	41.874	72.019		21.35		AAAA
MOTA	1813	ND2		229		3.833	37.596	70.503		18.47		AAAA
ATOM	1814		ASN	229		4.284	36.644			22.47		AAAA
ATOM	1815	-	ASN	229		3.252	37.454	69.319		17.79		AAAA
MOTA	1816		GLU	230	_	3.081	36.125	68.748		21.18		AAAA
MOTA	1817		GLU	230		2.152	36.193	67.536	1.00	20.54		AAAA
ATOM	1818		GLU	230 230		0.765	36.714	67.890	1.00	28.98		AAAA
MOTA	1819		GLU	230	-	9.870				24.35		AAAA
MOTA	1820		GLU	230	1	0.360			1.00	22.00		AAAA
MOTA	1821	OE1		230	_	8.683			1.00	24.99		AAAA
MOTA	1822	OE2		230		14.422	_		1.00	16.89		AAAA
MOTA	1823		GLU GLU	230		14.663				19.45		AAAA
MOTA	1824		PHE	231		15.305			1,00	15.68		AAAA
ATOM	1825	N	PHE	231		16.616			1.00	15.78		AAAA
ATOM	1826	CA	PHE	231		17.420				13.22		AAAA
ATOM	1827	CB		231		18.719		66.069	1 10	20.63		AAAA
ATOM	1828	CG CD1	DUE	231		18.723	35.445	65.016	1 0	18.42		AAAA
MOTA	1829	CD2	DAL	231		19.936			1 70	0 21.10		AAAA
ATOM	1830	CE1		231		19.918		64.471	1.0	0 1767	•	AAAA
ATOM	1831	CE2		231		21.144		66.029		0 28.29		AAAA
MOTA	1832		PHE	231		21.130		64.976	1.0	0 27.85		AAAA
ATOM	1833	CZ	PHE	231		17.385		68.636		0 18.54		AAAA
ATOM	1834	C	PHE	231		17.869				0 18.86		AAAA
MOTA	1835	0	LEU	232		17.495				0 19.07		AAAA
MOTA	1836	N	LEU	232		18.239				0 17.39		AAAA
MOTA	1837	CA	LEU	232		18.415		3 71.737		0 24.53		AAAA
ATOM	1838	CB	LEU	232		19.214			1.0	0 16.64		AAAA
MOTA	1839			232		19.134	-			0 26.70		AAAA
ATOM	1840		LEU	232		20.659		6 70.810	1.0	0 18.77		AAAA
MOTA	1841		LEU	232		17.60			1.0	0 19.82		AAAA
ATOM	1842		LEU	232		18.309			1.0	0 2180		AAAA
ATOM	1843		LEU	233		16.28			1.0	0 17.18		AAAA
ATOM	1844		PHE	233		15.58			1.0	0 23.34		AAAA
ATOM	1845		PHE	233		14.07			1.0	0 19.17		AAAA
ATOM	1846		PHE	233		13.28				0 21.40		AAAA
ATCM	1847	_	PHE			12.86	3 32.30			00 29.62		AAAA
MOTA	1848	וניט ו	PHE	ددے				-	•			•

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ATOM	1849	CD2	PHE	233	12.942	31.473	71.596	1.00 19.92	AAAA
ATOM	1850		PHE	233	12.088	31.206	74.229	1.00 29.35	AAAA
ATOM	1851		PHE	233	12.168	30.363	71.966	1.00 25.37	AAAA
	1852	CZ	PHE	233	11.737	30.231	73.283	1.00 30.28	AAAA
ATOM	1853	c	PHE	233	16.041	32.234	71.660	1.00 23.12	AAAA
ATOM	1854	0	PHE	233	16.433	31.273	72.332	1.00 18.35	AAAA
MOTA	1855	N	ALA	234	15.961	32.208	70.332	1.00 17.26	AAAA
MOTA	1856	CA	ALA	234	16.332	31.026	69.562	1.00 17.67	AAAA
MOTA		CB	ALA	234	16.085	31.297	68.046	1.00 19.08	AAAA
MOTA	1857 1858	C	ALA	234	17.786	30.641	69.800	1.00 16.31	AAAA
ATCM	1859	0	ALA	234	18.127	29.461	69.926	1.00 16.75	AAAA
MOTA		N	LEU	235	18.646	31.643	69.846	1.00 16.73	AAAA
ATOM	1860 1861	CA	LEU	235	20.074	31.411	70.051	1.00 19.14	AAAA
ATOM	1862	CB	LEU	235	20.823	32.742	69.956	1.00 21.72	AAAA
ATOM	1863	CG	LEU	235	22.226	32.790	69.345	1.00 36.73	AAAA
ATOM	1864		LEU	235	23.026	33.844	70.105	1.00 20.69	AAAA
MOTA	1865		LEU	235	22.917	31.426	69.393	1.00 22.96	AAAA
MOTA	1866	CDZ	LEU	235	20.354	30.776	71.421	1.00 18.71	AAAA
ATOM	1867	0	LEU	235	21.028	29.747	71.522	1.00 18.59	AAAA
MOTA	1868	N	GLU	236	19.831	31.390	72.479	1.00 25.43	AAAA
ATOM ATOM	1869	CA	GLU	236	20.046	30.883	73.839	1.00 19.75	AAAA
ATOM	1870	CB	GLU	236	19.335	31.777	74.860	1.00 23.18	AAAA
	1871	CG	GLU	236	19.725	33.229	74.777	1.00 38.53	AAAA
MOTA MOTA	1872	CD	GLU	236	18:857	34:119	75.648	1.00 42.42	AAAA
ATOM	1873		GLU	236	17.617	34.171	75.428	1.00 45.43	AAAA
ATOM	1874		GLU	236	19.425	34.768	76.548	1.00 48.76	AAAA
ATOM	1875	C	GLU	236	19.541	29.452	74.011	1.00 25.85	AAAA
ATOM	1876	ō	GLU	236	20.222	28.603	74.597	1.00 21.36	AAAA
ATOM	1877	N	LYS	237	18.343	29.193	73.501	1.00 23.16	AAAA
ATOM	1878	CA	LYS	237	17.752	27.871	73.610	1.00 17.06	AAAA
ATOM	1879	CB	LYS	237	16.282	27.943	73.193	1.00 26.98	AAAA
ATOM	1880	CG	LYS	237	15.483	26.711	73.519	1.00 52.00	AAAA
MOTA	1881	CD	LYS	237	14.078	27.110	. 73.932	1.00 56.40	AAAA
ATOM	1882	CE	LYS	237	14.131	27.979	75.183	1.00 52.03	AAAA AAAA
ATOM	1883	NZ	LYS	237	12.782	28.421	75.614	1.00 55.53	AAAA
ATOM	1884	С	LYS	237	18.502	26.827	72.785	1.00 18.46	AAAA
ATOM	1885	0	LYS	237	18.691	25.692	73.231	1.00 21.20 1.00 21.28	AAAA
MOTA	1886	N	SER	238	18.932	27.187	71.578	1.00 21.28	AAAA
ATOM	1887	CA	SER	238	19.649	26.208	70.776	1.00 10.47	AAAA
ATOM	1888	CB	SER	238	19.745	26.666	69.307 69.160	1.00 19.75	AAAA
ATOM	1889	OG	SER	238	20.475	27.858	71.361	1.00 18.79	AAAA
MOTA	1890	С	SER	238	21.039	25.923 24.788	71.301	1.00 20.60	AAAA
MOTA	1891	0	SER	238	21.521	26.937	71.925	1.00 22.95	AAAA
MOTA	1892	N	LEU	239	21.690	26.701	72.513	1.00 20.98	AAAA
ATOM	1893	CA	LEU	239	23.004 23.652	28.008	72.986	1.00 18.39	AAAA
MOTA	1894	CB.	LEU	239	23.985	29.072	71.933	1.00 20.02	AAAA
MOTA	1895	CG	LEU	239	24.538	30.311	72.636	1.00 27.02	AAAA
MOTA	1896		LEU	239	25.010	28.556	70.933	1.00 20.31	AAAA
ATOM	1897		LEU	239	22.882	25.735	73.680	1.00 25.16	AAAA
MOTA	1898	C	LEU	239	23.780	24.929	73.920		AAAA
ATOM	1899	0	LEU	239	21.768	25.800	74.398	1.00 24.93	AAAA
MOTA	1900	N	GLU	240 240	21.570		75.536	1.00 25.72	AAAA
MOTA	1901	CA	GLU		20.331	25.356		1.00 29.10	AAAA
MOTA	1902	CB	GLU	240 240	20.042	24.531	77.581	1.00 49.56	AAAA
MOTA	1903	CG	GLU	240	19.053	25.212			AAAA
MOTA	1904	CD	GLU	240	17.935			1.00 69.26	AAAA
ATOM	1905		GLU GLU	240	10 400	25.410		1.00 66.68	AAAA
ATOM	1906		GLU	240	21.440			1.00 23.44	AAAA
MOTA	1907	C	GLU	240	21.951			1.00 23.10	AAAA
ATOM	1908	0	ILE	240	20.771			1.00 19.52	AAAA
MOTA	1909	N CA	ILE	241	20.598	_		1.00 24.06	AAAA
ATOM	1910 1911	CB	ILE	241	19.705			1.00 23.80	AAAA
MOTA	1911		2 ILE	241	19.718				AAAA
ATOM	1913		1 ILE	241	18.281			1.00 28.60	AAAA
ATOM ATOM	1914		1 ILE	241	17.336			1.00 27.04	AAAA
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	1015	~	TT 72	241	21.957	21.404		1.00 25.48	AAAA
MOTA	1915	Ċ	ILE		22.244	20.234	73.195	1.00 19.43	AAAA
MOTA	1916	0	ILE	241	22.799	22.235		1.00 20.41	AAAA
ATOM	1917		VAL	242		21.782	71.928	1.00 23.17	AAAA
MOTA	1918	CA	VAL	242	24.116			1.00 26.48	AAAA
MOTA	1919	CB	VAL	242	24.853	22.856	71.107		AAAA
ATOM	1920	CG1	VAL	242	26.273	22.394	70.807	1.00 18.67	
ATOM	1921	CG2		242	24.093	23.135	69.802	1.00 26.97	AAAA
	1922		VAL	242	24.962	21.456	73.154	1.00 24.81	AAAA
ATOM			VAL	242	25.566	20.384	73.235	1.00 22.49	AAAA
ATOM	1923	0		243	24.989	22.387	74.102	1.00 25.06	AAAA
ATOM	1924	N	LYS		25.775	22.202	75.311	1.00 32.57	AAAA
ATOM	1925	CA	LYS	243	25.599	23.379	76.272	1.00 28.53	AAAA
ATOM	1926	CB	LYS	243		23.183	77.568	1.00 43.21	AAAA
ATOM	1927	CG	LYS	243	26.386		78.653	1.00 53.10	AAAA
ATOM	1928	CD	LYS	243	26.022	24.191	-	1.00 50.30	AAAA
ATOM	1929	CE	LYS	243	26.407	25.607	78.287	1.00 59.15	AAAA
MOTA	1930	NZ	LYS	243	26.045	26.548	79.389		AAAA
ATOM	1931	С	LYS	243	25.433	20.917	76.046	1.00 30.38	AAAA
ATOM	1932	0	LYS	243	26.321	20.255	76.578	1.00 35.44	
ATOM	1933	N	GLU	244	24.161	20.542	76.076	1.00 28.12	AAAA
	1934	CA	GLU	244	23.798	19.320	76.798	1.00 37.54	AAAA
ATOM	1935	CB	GLU	244	22.288	19.260	77.048	1.00 35.34	AAAA
MOTA				244	21.735	20.459	77.816	1.00 55.88	AAAA
ATOM	1936	CG	GLU		20.281		7.8.230	1.00 57.89	AAAA
ATOM	1937	CD	GLU	244	19.673		78.738	1.00 60.60	AAAA
ATOM	1938	OE1	GLU	244			78.062	1.00 57.73	AAAA
ATOM	1939	OE2	GLU	244	19.753		76.102	1.00 38.17	AAAA
ATOM	1940	С	GLU	244	24.231			1.00 38.46	AAAA
ATOM	1941	0	GLU	244	24.294		76.727	1.00 30.29	AAAA
ATOM	1942	N	VAL	245	24.541		74.817	1.00 30.23	AAAA
ATOM	1943	CA	VAL	245	24.933		74.042	1.00 29.17	AAAA
ATOM	1944	CB	VAL	245	23.984	16.778	72.833	1.00 46.68	AAAA
MOTA	1945		VAL	245	24.462		71.942	1.00 53.09	
MOTA	1946		VAL	245	22.581	16.488	73.32 7	1.00 54.19	AAAA
	1947	C	VAL	245	26.364	16.982	73.508	1.00 34.90	AAAA
ATOM	1948	0	VAL	245	26.915	15.939	73.164	1.00 34.73	AAAA
ATOM	1949	N	PHE	246	26.980	18.156	73.465	1.00 29.22	AAAA
MOTA			PHE	246	28.324		72.897	1.00 29.17	AAAA
MOTA	1950	CA		246	28.178		71.464	1:00 30.42	AAAA
ATOM	1951	CB	PHE	246	29.384		70.585	1.00 25.62	AAAA
MOTA	1952	CG	PHE		29.695		70.097	1.00 28.89	AAAA
ATOM	1953		PHE	246	30.167		70.196	1.00 25.17	AAAA
MOTA	.1954		PHE	246			69.222	1.00 23.43	AAAA
MOTA	1955		PHE	246	30.773			1.00 22.40	AAAA
ATOM	1956	CE2	PHE	246	31.248			1.00 19.88	AAAA
MOTA	1957	CZ	PHE	246	31.549			1.00 23.38	AAAA
ATOM	1958	С	PHE	246	29.23			1.00 29.15	AAAA
ATOM	1959	0	PHE	246	28.86	7 20.312		1.00 29.73	AAAA
ATOM	1960	N	GLU	247	30.41		74.094		AAAA
ATOM	1961	CA	GLU	. 247	31.39	5 19.481		1.00 28.10	AAAA
ATOM	1962	CB	GLU	247	31.91	2 18.726	76.074	1.00 35.75	AAAA
	1963	CG	GLU	247	30.97	2 18.707	77.286	1.00 60.78	
· ATOM		CD	GLU	247	29.70	o 17.892	77.077		AAAA
ATOM	1964		GLU	247	28.91		76.165	1.00 79.95	AAAA
MOTA	1965			247	29.48			1.00 76.80	AAAA
ATOM	1966		2 GLU		32.55				AAAA
MOTA	1967	С	GLU	247	33.49				AAAA
ATOM	1968	0	GLU	247					AAAA
ATOM	1969	N	PRO	248	32.53				AAAA
ATOM	1970	CD	PRO	248	31.57				AAAA
ATOM	1971	CA	PRO	248	33.56				AAAA
ATOM	1972	CB	PRO	248	33.05				AAAA
ATOM	1973	CG	PRO		31.55		71.897		AAAA
	1974		PRO	_	34.96	8 21.416			AAAA
ATOM	1975		PRO		35.13	2 21.89			
ATOM			GLU		35.96				AAAA
ATOM	1976			_	37.36		5 72.355	1.00 25.98	AAAA
ATOM	1977				38.27			1.00 22.07	AAAA
ATOM	1978				38.04	6 18.72		1.00 33.40	AAAA
MOTA	1979				39.00	5 17.76			AÄÄA
MOTE	1980	CD	GLU	249	39.00			-	•

A TOM	1981	OE1	GLU	249	39.071	17.770	70.199	1.00 27.62	AAAA
ATOM ATOM	1982	OE2		249	39.694	17.004	72.161	1.00 26.19	AAAA
MOTA	1983	C	GLU	249	37.692	22.561	71.786	1.00 26.04	AAAA
MOTA	1984		GLU	249	38.582	23.271	72.262	1.00 26.39	AAAA
ATOM	1985	N	VAL.	250	36.953	22.921	70.744	1.00 23.83	AAAA
ATOM	1986	CA	VAL	250	37.151	24197	70.086	1.00 19.67	AAAA
ATOM	1987		VAL	250	38.438	24.178	69.210	1.00 20.88	AAAA
MOTA	1988	CG1	•	250	38.348	23.117	68.128	1.00 18.18	AAAA
ATOM	1989	CG2		.250	38.647	25.530	68.591	1.00 16.71	AAAA
ATOM	1990	С	VAL	250	35.946	24.483	69.207	1.00 20.78	AAAA
ATOM	1991	0	VAL	250	35.299	23.556	68.746	1.00 19.60	AAAA
ATOM	1992	N	TYR	251	35.633	25.757	69.000	1.00 18.75	AAAA
ATOM	1993	CA	TYR	251	34.497	26.109	68.153	1.00 22.44	AAAA
ATOM	1994	CB	TYR	251	33.261	26.437	69.022	1.00 16.57	AAAA
MOTA	1995	CG	TYR	251	33.207	27.856	69.575	1.00 22.36	AAAA
MOTA	1996	CD1	TYR	251	32.654	28.896	68.823	1.00 18.12	AAAA
MOTA	1997	CEl		251	32.612	30.185	69.308	1.00 20.40	AAAA AAAA
MOTA	1998	CD2	TYR	251	33.715	28.160	70.842	1.00 20.04	AAAA
MOTA	1999	CE2	TYR	251	33.676	29.475	71.349 70.573	1.00 16.60 1.00 14.68	AAAA
MOTA	2000	CZ	TYR	251	33.128	30.473	71.011	1.00 21.79	AAAA
ATOM	2001	ОН	TYR	251	33.100 34.811	31.780 27.294	67.236	1.00 20.28	AAAA
MOTA	2002	C	TYR	251	35.695	28.107	67.525	1.00 19.91	AAAA
MOTA	2003	0	TYR	251	34.097	27.360	66.109	1.00 17.90	AAAA
ATOM	2004	N	LEU	252 252	34.216	28.466	65.161	1.00 18.58	AAAA
ATOM	2005	CA CB	LEU LEU	252	34.679	28.001	63.767	1.00 17.55	AAAA
ATOM	2006 2007	CG	LEU	252	36.028	27.290	63.718	1.00 23.36	AAAA
ATOM	2007		LEU	252	35.819	25.820	64.017	1.00 27.78	AAAA
MOTA MOTA	2009		LEU	252	36.631	27.440	62.331	1.00 27.29	AAAA
ATOM	2010	C	LEU	252	32.816	29.049	65.052	1.00 15.49	AAAA
ATOM	2011	Ö	LEU		31.819	28.320	65.120	1.00 18.82	AAAA
ATOM	2012	N	LEU	253	32.756	30.360	64.891	1.00 16.80	AAAA
ATOM	2013	CA	LEU	253	31.498	31.105	64.817	1.00 17.50	AAAA
ATOM	2014	CB	LEU	253	31.379	31.987	66.073	1.00 15.49	AAAA
MOTA	2015	CG	LEU	253	30.326	33.085	66.165	1.00 17.75	AAAA
MOTA	2016		LEU	253	28.946	32.438	66.172	1.00 20.85	AAAA AAAA
MOTA	2017	CD2	LEU	253	30.536	33.897	67.464	1.00 19.05 1.00 20.22	AAAA
MOTA	2018	С	LEU	253	31.516	31.985	63.580 63.371	1.00 18.14	AAAA
ATOM	2019	0	LEU	253	32.474	32.727 31.913	62.765	1.00 16.50	AAAA
MOTA	2020	N	GLN	254	30.466 30.411	32.730	61.556	1.00 16.48	AAAA
ATOM	2021	CA	GLN	254 254	30.085	31.863	60.312	1.00 25.58	AAAA
ATOM	2022	CB	GLN GLN	254	28.647	31.798	59.871	1.00 36.40	AAAA
MOTA	2023 2024	CG CD	GLN	254	28.337	32.728	58.701	1.00 33.18	AAAA
ATOM ATOM	2025		GLN	254	28.744	32.487	57.546	1.00 21.05	AAAA
	. 2026		GLN	254	27.613	33.799	58.992	1.00 22.85	AAAA
ATOM	2027	C	GLN	254	29.384	33.816	61.832	1.00 16.12	AAAA
ATOM	2028		GLN	254	28.282	33.577	62.364	1.00 13.97	AAAA
ATOM	2029	N	LEU	255	29.768	35.032	61.468	1.00 14.42	AAAA
ATOM	2030	CA	LEU	255	28.988	36.215	61.763	1.00 17.99	AAAA
ATOM	2031	CB	LEU	255 ·	29.834	37.070	62.719	1.00 20.68	AAAA
ATOM	2032	CG	LEU	255	30.240	36.283	63.964	1.00 22.90	AAAA AAAA
ATOM	2033	CD1	LEU	255	31.446	36.906	64.635	1.00 29.36	AAAA
MOTA	2034	CD2	LEU	255	29.042	36.214		1.00 14.80	AAAA
ATOM	2035	С	LEU	255	28.541	37.060		1.00 19.32 1.00 21.23	AAAA
MOTA	2036	0	LEU	255	28.838	38.260		1.00 21.23	AAAA
ATOM	2037	N	GLY		27.827	36.467			AAAA
MOTA	2038	CA	GLY		27.347	37.259			AAAA
MOTA	2039	C	GLY		26.413	38.348			AAAA
MOTA	2040	0	GLY		25.717	38.150 39.494			AAAA
ATOM	2041	N	THR		26.389 25.536	40.598			AAAA
ATCM	2042	CA	THR			41.973			AAAA
ATOM	2043	CB	THR		26.242 26.538	42.187			AAAA
MOTA	2044	0G1			27.543	42.009			AAAA
MOTA	2045	CG2			24.199	40.634			AAAA
ATCM	2046	С	THR	الت ا	23.277			•	

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ATOM	2047	0	THR	257	23.403	41.545	58.266	1.00 14.59	AAAA
				258	23.927	39.639	57.213	1.00 16.56	AAAA
MOTA	2048	N	ASP		22.651	39.646	56.525	1.00 16.39	AAAA
MOTA	2049	CA	ASP	258				1.00 18.38	AAAA
ATOM	2050	CB	ASP	258	22.604	38.611	55.388		
	_	CG	ASP	258	23.037	37.229	55.811	1.00 25.85	AAAA
MOTA	2051				23.222	36.995	57.022	1.00 22.32	AAAA
ATOM -	2052	OD1	ASP	258				1.00 18.12	AAAA
MOTA	2053	OD2	ASP	258	23.187	36.370	54.909		
ATOM	2054	С	ASP	258	21.396	39.563	57.397	1.00 21.25	AAAA
				258	20.300	39.781	56.897	1.00 22.52	AAAA
MOŢA	2055	0	ASP			39.172	58.680	1.00 18.17	AAAA
MOTA	2056	N	PRO	259	21.510			1.00 25.88	AAAA
ATOM	2057	CD	PRO	259	22.614	38.528	59.422		
	2058	CA	PRO	259	20.281	39.139	59.482	1.00 21.24	AAAA
MOTA				259	20.710	38.363	60.735 -	1.00 21.18	AAAA
MOTA	2059	CB	PRO				60.846	1.00 36.11	AAAA
MOTA	2060	CG	PRO	259	22.174	38.707			AAAA
ATOM	2061	С	PRO	259	19.705	40.534	59.820	1.00 20.88	
	2062	ō	PRO	259	18.572	40.647	60.280	1.00 19.25	-AAAA
MOTA		_		260	20.473	41.591	59.571	1.00 18.75	AAAA
ATOM	2063	N	LEU				59.875	1.00 22.16	AAAA
MOTA	2064	CA	LEU	260	20.023	42.949			AAAA
ATOM	2065	CB	LEU	260	21.202	43.935	59.778	1.00 20.35	
	_	CG	LEU	260	22.403	43.640	60.682	1.00 21.82	AAAA
ATOM	2066				23,604	44.486	60.253	1.00 18.57	AAAA
ATOM	2067		LEU	260				1.00 19.18	AAAA
ATOM	2068	CD2	LEU	260	22.032	43.873	62.123		
	2069	С	LEU	260	18.876	43.469	59.014	1.00 24.16	AAAA
ATOM				260	18.742	43.144	57.826	1.00 21.69	AAAA
MOTA	2070	0	LEU			44.300	59.634	1.00 19.54	AAAA
ATOM	2071	N	LEU	261	18.049				AAAA
ATOM	2072	ÇA	LEU	261	16.903	44.913	58.965	1.00 17.34	
	2073	CB	LEU	261	16.285	45.967	59.892	1.00 19.96	AAAA
MOTA				261	15.204	46.879	59.300	1.00 29.99	AAAA
MOTA	2074	CG	LEU			46.040	58.732	1.00 33.66	AAAA
MOTA	2075	CD1	LEU	261	14.080			1.00 44.71	AAAA
ATOM	2076	CD2	LEU	261	14.682	47.819	60.376	1.00 44.71	
	2077	C	LEU	261	17.262	45.550	57.620	1.00 18.11	AAAA
MOTA				261	16.539	45.386	56.634	1.00 19.02	AAAA
MOTA	2078	0	LEU				57.566	1.00 22.68	AAAA
MOTA	2079	N	GLU	262	18.391			1.00 18.46	AAAA
ATOM	2080	CA	GLU	262 -	18.802	46.921	56.338		
	2081	CB	GLU	262	19.875	47.965	56.641	1.00 22.01	AAAA
MOTA				262	19.365		57.443	1.00 22.94	AAAA
MOTA	2082	CG	GLU				58.927	1.00 23.11	AAAA
ATOM	2083	CD	GLU	262	19.434			1.00 24.58	AAAA
MOTA	2084	OE1	. GLU	262	19.668		59.357	1.00 24.38	
	2085		GLU	262	19.238	49.883	59.667	1.00 27.06	AAAA
ATOM				262	19.281	46.034	55.197	1.00 25.65	AAAA
ATOM	2086	С	GLU		_		54.070	1.00 25.49	AAAA
ATOM	2087	0	GLU	262	19.446			1.00 22.45	AAAA
ATOM	2088	N	ASP	263	19.501		55.467		
	2089	CA	ASP	263	19.959	43.851	54.418	1.00 15.93	AAAA
MOTA				263	20.981	42.859	54.988	1.00 18.99	AAAA
MOTA	2090	CB	ASP					1.00 22.21	AAAA
MOTA	2091	CG	ASP	263	21.706			1.00 23.19	AAAA
ATOM	2092	OD1	LASP	263	22.876		54.139		AAAA
			2 ASP	263	21.112	41.809	52.838	1.00 25.02	
MOTA	2093				18.733	43.165	53.837	1.00 22.32	AAAA
MOTA	2094	С	ASP	263			_	1.00 18.50	AAAA
ATOM	2095	0	ASP	263	18.012			1.00 25.21	AAAA
ATOM	2096	N	TYR	264	18.500	43.447		1.00 25.21	
			TYR	264	17.339	42.936	51.865	1.00 29.92	AAAA
MOTA	2097	CA			17.077			1.00 38.48	AAAA
MOTA	2098	CB	TYR	264					AAAA
MOTA	2099	CG	TYR	264	17.910				AAAA
	2100		1 TYR	264	17.677	42.249		1.00 69.38	
MOTA		25	myn	264	18.420	41.930	47.526	1.00 68.71	AAAA
ATOM	2101	CE.	1 TYR		18.915			1.00 66.09	AAAA
ATOM	2102	CD:	2 TYR	264					AAAA
ATOM	2103	CE	2 TYR	264	19.670				AAAA
	2104	CZ	TYR	264	19.41	42.794			
MOTA				264	20.154		45.975	1.00 71.96	AAAA
ATOM	2105		TYR						AAAA
MOTA	2106	С	TYR	264	17.44				AAAA
ATOM	2107		TYR	264	16.448				
					18.63	9 40.891	51.629	1.00 24.45	AAAA
ATOM	2108		LEU		18.75				AAAA
MOTA	2109	CA							AAAA
ATOM	2110	CB	LEU	265	20.18				AAAA
					20.50	9 39.510	o 49.531	1.00 34.43	
MOTA	2111				21.84			1.00 44.38	· AAAA
ATCM	2112	CD	1 LEU	200	21.04		•		

ATOM	2113	CD2	LEU	265	19.422	38.990	48.603	1.00 46.72	AAAA
ATOM	2114	-	LEU	265	18.209	38.585	52.447	1.00 22.33	AAAA
ATOM	2115		LEU	265	18.279	37.364	52.348	1.00 23.48	AAAA
ATOM	2116	N	SER	266	17.677	39.194	53.508	1.00 17.50	AAAA
ATOM	2117	CA	SER	266	17.055	38.398	54.569	1.00 19.69	AAAA
ATOM	2118	CB	SER	266	17.912	38.314	55.845	1.00 20.73	AAAA
MOTA	2119	OG	SER	266	17.696	39.442	56.684	1.00 22.81	AAAA
ATOM	2120	С	SER	266	15.739	39.048	54.950	1.00 19.75	AAAA
ATOM	2121	0	SER	266	15.572	40.265	54.840	1.00 23.66	AAAA
MOTA	2122	N	LYS	267	14.799	38.229	55.402	1.00 18.40	AAAA
ATOM	2123	CA	LYS	267	13.527	38.759	55.851	1.00 20.64	AAAA
MOTA	2124		LYS	267	12.397	37.787	55.513	1.00 20.96	AAAA
MOTA	2125		LYS	267	12.269	37.536	54.025	1.00 25.60	AAAA
MOTA	2126		LYS	267	12.095	38.823	53.259	1.00 33.47 1.00 38.49	AAAA AAAA
MOTA	2127	CE	LYS	267	11.985	38.540	51.772 50.991	1.00 33.11	AAAA
MOTA	2128	NZ	LYS	267	11.954 13.601	39.793 38.987	57.365	1.00 20.63	AAAA
MOTA	2129	C	LYS	267 267	12.584	39.192	58.017	1.00 25.38	AAAA
MOTA	2130	0	LYS PHE	268	14.814	38.937	57.915	1.00 18.98	AAAA
MOTA	2131 2132	N CA	PHE	268	15.034	39.182	59.345	1.00 18.50	AAAA
MOTA	2132	CB	PHE	268	16.328	38.510	59.833	1.00 20.91	AAAA
MOTA MOTA	2134	CG	PHE	268	16.252	37.006	59.967	1.00 16.96	AAAA
ATOM	2135	CD1		268	17.374	36.290	60.415	1.00 16.61	AAAA
ATOM	2136	CD2		268	15.081	36.303	59.682	1.00 18.13	AAAA
ATOM	2137	CE1		268	17.331	34.904	60.581	1.00 14.81	AAAA
ATOM	2138	CE2		268	15.027	34.900	59.849	1.00 17.45	AAAA
ATOM	2139	CZ	PHE	268	16.144	34.208	60.296	1.00 16.01	AAAA
MOTA	2140	С	PHE	268	15.179	40.699	59.510	1.00 18.33	AAAA
ATOM	2141	0	PHE	268	,15.733	41.371	58.644	1.00 18.28	AAAA
MOTA	2142	N	ASN	269	14.679	41.236	60.613	1.00 21.04	AAAA
MOTA	2143	CA	ASN	269	14.763	42.675	60.859	1.00 22.89	AAAA
MOTA	2144	CB	ASN	269	13.365	43.298	60.940	1.00 20.55	AAAA AAAA
MOTA	2145	CG	ASN	269	12.551	43.071.		1.00 26.13	AAAA
MOTA	2146		ASN	269	13.060	43.192	58.571 59.860	1.00 29.17 1.00 28.26	AAAA
MOTA	2147	ND2		269	11.268 15.493	42.767 42.967	62.159	1.00 28.20	AAAA
MOTA	2148	C	ASN	269 269	14.984	43.683	63.019	1.00 21.85	AAAA
MOTA	2149	0	ASN LEU	270	16.695	42.435	62.298	1.00.17.71	AAAA
ATOM ATOM	2150 2151	N CA	LEU	270	17.441	42.642	63.521	1.00 18.57	AAAA
MOTA	2152	CB	LEU	270	18.441	41.507	63.712	1.00 18.95	AAAA
ATOM	2153	CG	LEU	270	17.945	40.058	63.631	1.00 20.54	AAAA
ATOM	2154		LEU	270	19.070	39.174	64.152	1.00 14.19	AAAA
ATOM	2155		LEU	270	16.679	39.853	64.465	1.00 19.05	AAAA
ATOM	2156	С	LEU	270	18.203	43.971	63.583	1.00 22.83	AAAA
ATOM	2157	0	LEU	270	18.409	44.643	62.560	1.00 18.25	AAAA
ATOM	2158	N	SER	271	18.621	44.318	64.799	1.00 20.95	AAAA
ATOM	2159	CA	SER	271	19.414	45.518	65.081	1.00 18.28	AAAA
MOTA	2160	CB	SER	271	18.985	46.150	66.409	1.00 18.73	AAAA AAAA
ATOM	2161	OG	SER	271	19.347	45.327	67.512	1.00 22.28	AAAA
MOTA	2162	С	SER	271	20.875	45.073	65.224 65.537	1.00 19.98 1.00 18.82	AAAA
MOTA	2163	0	SER	271	21.122	43.899	65.020	1.00 16.82	AAAA
MOTA	2164	N	ASN	272	21.828 23.270	45.994 45.695	65.145	1.00 20.70	AAAA
MOTA	2165	CA	ASN	27 2 272	24.176	46.903	64.884	1.00 37.49	AAAA
ATOM	2166	CB	ASN	272	24.161	47.378	63.483	1.00 54.53	AAAA
MOTA	2167 2168	CG	ASN ASN	272	24.702	48.454	63.199	1.00 45.61	AAAA
MOTA	2169		ASN	272	23.576	46.594	62.579	1.00 60.55	AAAA
ATOM	2109	C	ASN	272	23.586	45.343	66.580	1.00 18.03	AAAA
atom atom	2171	0	ASN	272	24.545	44.625	66.854	1.00 18.58	AAAA
ATOM	2172	N	VAL	273	22.831	45.938	67.500	1.00 19.57	AAAA
ATOM	2173	CA	VAL	273	23.053	45.698	68.919	1.00 22.12	AAAA
ATOM	2174	CB	VAL	273	22.345	46.765	69.765	1.00 26.91	AAAA
ATOM	2175		VAL	273	22.440	46.421	71.233	1.00 39.69	AAAA
ATOM	2176		VAL	273	23.034	48.115	69.531	1.00 34.73	AAAA
ATOM	2177	C	VAL	273	22.636	44.295	69.341	1.00 22.06	AAAA
MOTA	2178	0	VAL	273	23.249	43.708	70.217	1.00 16.89	AAAA

	2170	N	ALA	274	21.601	43.747	68.713	1.00 21.79	AAAA
ATOM	2179		ALA	274	21.207	42.383	69.035	1.00 21.31	AAAA
MOTA	2180 2181	CA CB	ALA	274	19.806	42.092	68.475	1.00 18.95	AAAA
ATOM	-	C	ALA	274	22.259	41.451	68.400	1.00 17.83	AAAA
ATOM	2182		ALA	274	22.569	40.389	68.947	1.00 20.38	AAAA
MOTA	2183	0	PHE	275	22.798	41.859	67.245	1.00 16.01	AAAA
MOTA	2184	И	PHE	275	23.828	41.089	66.536	1.00 16.46	AAAA
MOTA	2185	CA	PHE	275	24.220	41.835	65.253	1.00 24.56	AAAA
MOTA	2186	CB	PHE	275	25.363	41.222	64.492	1.00 23.01	AAAA
ATOM	2187	CG		275	25.209	40.035	63.788	1.00 23.88	AAAA
MOTA	2188		PHE	275	26.590	41.877	64.443	1.00 22.40	AAAA
MOTA	2189		PHE	275	26.266	39.510	63.038	1.00 28.74	AAAA
MOTA	2190		PHE	275	27.654	41.365	63.700	1.00 35.03	AAAA
MOTA	2191	CZ	PHE	275	27.489	40.181	62.996	1.00 24.63	AAAA
ATOM	2192 2193	C.	PHE	275	25.030	40.964	67.469	1.00 25.06	AAAA
ATOM	2193	0	PHE	275	25.619	39.888	67.632	1.00 19.71	AAAA
ATOM	2194	Ŋ	LEU	276	25.366	42.080	68.101	1.00 17.49	AAAA
MOTA	2196	CA	LEU	276	26.482	42.139	69.030	1.00 24.23	AAAA
MOTA	2197	CB	LEU	276	26.736	43.606	69.416	1.00 20.44	AAAA
ATOM	2198	CG	LEU	276	28.001	43.967	70.211	1.00 39.65	AAAA
MOTA	2199		LEU	276	27.948	45.447	70.589	1.00 29.65	AAAA
MOTA	2200		LEU	276	28.102	43.143	71.460	1.00 32.41	AAAA
MOTA	2201	C	LEU	276	26.180	41.278	70.262	1.00 18.88	AAAA
MOTA	2202	Ö	LEU	276	27.045	40.529	70.727	1.00 17.99	AAAA
MOTA	2202	N	LYS	277	24.968	41.374	70.805	1.00 19.67	AAAA
MOTA	2204	CA	LYS	277	24.644	40.552	71.964	1.00 21.33	AAAA
ATOM ATOM	2205	CB.	LYS	277	23.265	40.888	72.532	1.00 23.84	AAAA
MOTA	2206	ĊĠ	LYS	277	23.247	42.126	73.366	1.00 40.87	AAAA
ATOM	2207	CD	LYS	277	22.069	42.086	74.325	1.00 54.73	AAAA
ATOM	2208	CE	LYS	277	22.172	40.884	75.254	1.00 58.85	AAAA
MOTA	2209	NZ	LYS	277	21.051	40.844	76.228	1.00 55.34	AAAA
ATOM	2210	C	LYS	277	24.695	39.068	71.660	1.00 22.12	AAAA
MOTA	2211	0	LYS	277	25.074	38.264	72.513	1.00 22.19	AAAA
MOTA	2212	N	ALA	278	24.311	38.700	70.441	1.00 20.23	AAAA AAAA
ATOM	2213	CA	ALA	278	24.325	37.291	70.039	1.00 17.06	AAAA
ATOM	2214	CB	ALA	278	23.798	37.154	68.589	1.00 19.27 1.00 16.94	AAAA
ATOM	2215	С	ALA	278	25.760	36.767	70.127	1.00 14.93	AAAA
MOTA	2216	0	ALA	278	26.035	35.676	70.648 69.606	1.00 18.88	AAAA
MOTA	2217	N	PHE	279	26.679	37.564 37.231	69.626	1.00 21.01	AAAA
MOTA	2218	CA	PHE	279	28.099		68.998	1.00 16.79	AAAA
MOTA	2219	CB	PHE	279	28.880	38.392 38.264	69.120	1.00 20.23	AAAA
MOTA	2220	CG	?HE	279	30.370	37.272	68.423	1.00 21.61	AAAA
MOTA	2221	-	PHE	279	31.062 31.088	39.159	69.905	1.00 23.24	AAAA
MOTA	2222		PHE	279	32.461	37.185	68.509	1.00 30.98	AAAA
MOTA	2223		PHE	279	32.480	39.081	69.995	1.00 24.82	AÄAA
ATOM	2224		PHE	279	33.169	38.095	69.295	1.00 30.27	AAAA
MOTA	2225	CZ	PHE	279 279	28.576	36.995	71.067	1.00 25.48	AAAA
ATOM	2226	C	PHE	279	29.275	36.016		1.00 16.30	AAAA
MOTA	2227	0	PHE	280	28.194	37.898	71.962	1.00 22.30	AAAA
MOTA	2228	N	ASN ASA	280	28.599	37.777		1.00 24.49	AAAA
MOTA	2229	CA	ASN	280	28.391	39.109		1.00 27.17	AAAA
MOTA	2230	CB CG	ASN	280	29.344	40.183		1.00 20.88	AAAA
MOTA	2231 2232		1 ASN	.280	30.503	39.897	73.273	1.00 22.95	AAAA
ATOM	2232		2 ASN	280	28.875	41.421	73.522		AAAA
MOTA		C	ASN	280	27.928	36.636			AAAA
MOTA	2234		ASN	280	28.510	36.062	75.016		AAAA
MOTA	223 _. 5 223.6		ILE	281	26.711	36.300			AAAA
MOTA	2237			281	26.005	35.179	74.294		AAAA
MOTA	2238		ILE	281	24.566	35.067			AAAA
ATOM	2230			281	23.977	33.725	74.135		AAAA
MOTA	2240			281	23.710	36.206			AAAA
MOTA MOTA	2240		1 ILE	281	22.279	36.193		1.00 26.47	AAAA
ATOM			ILE	281	26.743	33.876			AAAA
ATOM			ILE	281	26.830	32.973		1.00 19.69	AAAA
ATOM			VAL		27.258	33.765	72.744	1.00 17.72	AAAA
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ATOM	2245	CA	VAL	282	27.976	32.553	72.352	1.00 14.89	AAAA
ATOM	2246		VAL	282	28.359	32.565	70.852	1.00 18.50	AAAA
ATOM	2247	CG1	VAL	282	29.342	31.440	70.567	1.00 20.73	አልልአ
MOTA	2248	CG2		282	27.105	32.363	69.994	1.00 17.49	AAAA
MOTA	2249	С	VAL	282	29.241	32.433	73.198	1.00 21.79	AAAA
MOTA	2250	0	VAL	282	29.568	31.360	73.715	1.00 25.80 1.00 19.14	AAAA
MOTA	2251	N	ARG	283	29.935	33.549	73.361 74.150	1.00 13.14	AAAA AAAA
MOTA	2252	CA	ARG	283	31.161	33.548 34.898	74.130	1.00 20.64	AAAA
MOTA	2253	CB	ARG	283	31.851 32.338	35.200	72.607	1.00 19.65	AAAA
ATOM	2254 2255	CG	ARG ARG	283 283	32.754	36.645	72.474	1.00 25.70	AAAA
MOTA	2256	CD NE	ARG	283	33.970	36.944	73.215	1.00 36.05	AAAA
MOTA MOTA	2257	CZ	ARG	283	34.277	38.147	73.681	1.00 34.61	AAAA
ATOM	2258	-	ARG	283	33.448	39.169	73.488	1.00 35.23	AAAA
ATOM	2259		ARG	283	35.419	38.332	74.326	1.00 29.30	AAAA
ATOM	2260	C	ARG	283	30.911	33.219	75.622	1.00 25.44	AAAA
ATOM	2261	0	ARG	283	31.754	32.600	76.272	1.00 23.12	AAAA
ATOM	2262	N	GLU	284	29.765	33.632	76.151	1.00 26.79	AAAA
MOTA	2263	CA	GLU	284	29.462	33.338	77.553	1.00 31.77	AAAA
MOTA	2264	CB	GLU	284	28.243	34.115	78.033 77.957	1.00 30.96	AAAA. AAAA
MOTA	2265	CG	GLU	284	28.399	35.605 36.320	78.365	1.00 50.56 1.00 63.75	AAAA
MOTA	2266	CD	GLU	284	27.137 26.085	36.320	77.738	1.00 68.93	AAAA
MOTA	2267	OE1	GLU	284 284	27.198	37.133	79.309	1.00 72.01	AAAA
ATOM	2268 2269	OE2 C	GLU	284	29.181	31.862	77.733	1.00 31.57	AAAA
MOTA MOTA	2270	o	GLU	284	29.410	31.310	78.803	1.00 33.08	AAAA
ATOM	2271	N	VAL	285	28.673	31.221	76.686	1.00 23.37	AAAA
ATOM	2272	CA	VAL	285	28.354	29.807	76.774	1.00 23.25	AAAA
MOTA	2273	CB	VAL	285	27.221	29.407	75.789	1.00 24.77	AAAA
ATOM	2274		VAL	285	26.952	27.913	75.881	1.00 26.98	AAAA
ATOM	2275		VAL	285	25.940	30.181	76.107	1.00 24.98	AAAA
ATOM	2276	C .	VAL	285	29.567	28.942	76.479	1.00 31.41 1.00 25.34	AAAA AAAA
ATOM	2277	0	VAL	285	29.833 30.316	27.983 29.276	77.195	1.00 23.34	AAAA
ATOM	2278	N	PHE	286	31.463	28.457	75.086	1.00 27.27	AAAA
ATOM	2279 2280	CA CB	PHE PHE	286 286	31.289	27.904	73.667	1.00 22.26	AAAA
MOTA MOTA	2280	CG	PHE	286	30.168	26.918	73.536	1.00 25.71	AAAA
MOTA	2282		PHE	286	28.971	27.274	72.917	1.00 22.88	AAAA
ATOM	2283		PHE	286	30.294	25.631	74.069	1.00 24.49	AAAA
ATOM	2284	CE1	PHE	286	27.919	26.365	72.829	1.00 19.85	AAAA
ATOM	2285	CE2	PHE	286	29.246	24.714	73.987	1.00 27.48	AAAA
ATOM	2286	CZ	PHE	286	28.056	25.081	73.367	1.00 24.59	AAAA AAAA
ATOM	2287	C	PHE	286	32.854	29.059	75.225 74.873	1.00 21.53 1.00 27.12	AAAA
ATOM	2288	0	PHE	286	33.849	28.417 30.272	75.754	1.00 27.12	AAAA
MOTA	2289	N	GLY	287	32.937 34.237	30.896	75 901	1.00 24.17	AAAA
MOTA	2290 2291	CA C	GLY GLY	287 287	34.705	31.419	74.562	1.00 27.05	AAAA
ATOM ATOM	2292	Ö	GLY	287	33.888		•73.667	1.00 18.06	AAAA
ATOM	2293	N	GLU	288	36.017	31.576	74.414	1.00 23.21	AAAA
ATOM	2294	CA	GLU	288	36.583	32.085	73.170	1.00 24.87	AAAA
ATOM	2295	CB	GLU	288	37.968	32.682	73.410		AAAA
MOTA	2296	CG	GLU	288	37.984	33.933	74.291	1.00 42.63	AAAA
ATOM	2297	CD	GLU	288	37.114	35.052	73.745	1.00 43.77	AAAA AAAA
MOTA	2298		GLU	288	37.235	35.380	72.544	1.00 36.82 1.00 51.56	AAAA
MOTA	2299		GLU	288	36.317	35.617 31.028	74.521 72.072	1.00 20.85	AAAA
ATOM	2300	C	GLU	288	36.693	29.856	72.332	1.00 18.10	AAAA
ATOM	2301	0	GLU	288	36.995 36.447	31.468	70.843	1.00 26.12	AAAA
MOTA	2302	N C)	GLY GLY	.289 289	36.517	30.588	69.692	1.00 20.71	AAAA
MOTA	2303 2304	CA C	GLY	289	37.126	31.318	68.510	1.00 18.56	AAAA
MOTA MOTA	2304	0	GLY		37.669	32.404	68.679	1.00 16.59	AAAA
ATOM	2305	N	VAL		37.032	30.724	67.322	1.00 19.86	AAAA
ATOM	2307	CA	VAL		37.572	31.312	66.103	1.00 19.70	AAAA
MOTA	2308	CB	VAL	290	38.150	30.192	65.184	1.00 19.04	AAAA
MOTA	2309	CG1	VAL		38.667	30.769	63.853	1.00 15.54	AAAA
MOTA	2310		VAL		39.296	29.483	65.920	1.00 20.40	AAAA

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ATOM	2311	C .	VAL	290	36.408				AAAA
MOTA	2312	0	VAL	290	35.351	31.439		1.00 19.33	
				291	36.598	33.325	65.125	1.00 15.37	AAAA
ATOM			TYR		35.543	34.140	64.524	1.00 16.79	AAAA
MOTA	2314	CA	TYR	291	-			1.00 16.42	AAAA
MOTA	2315	CB	TYR	291	35.412	35.438	•••-		
	2316		TYR	291	35.375	35.181		1.00 18.60	AAAA
ATOM				291	36.366	35.688	67.659	1.00 21.77	AAAA
MOTA	2317	CD1				35.385	69.030	1.00 22.55	AAAA
MOTA	2318	CEl	TYR	291	36.368			1.00 17.34	AAAA
ATOM	2319	CD2	TYR	. 291	34.388	34.374	67.361		
			TYR	291	34.381	34.066	68.718	1.00 20.24	AAAA
MOTA	2320				35.367	34.568	69.545	1.00 25.85	AAAA
MOTA	2321	CZ	TYR	291 -	-		70.885	1.00 25.57	AAAA
ATOM	2322	OH	TYR	291	35.338	34.246			AAAA
	2323	С	TYR	291	35.720	34.446	63.031	1.00 14.97	
MOTA				291	36.773	34.921	62.586	1.00 15.21	AAAA
ATOM	2324	0	TYR		34.660	34.189	62.273	1.00 14.06	AAAA
MOTA	2325 .	N	LEU	292				1.00 15.03	AAAA
ATOM	2326	CA	LEU	292	34.674	34.392	60.824		AAAA
	2327	CB	LEU	292	34.461	33.046	60.108	1.00 13.66	
MOTA				292	35.342	31.856	60.496	1.00 19:04	AAAA
MOTA	2328	CG	LEU			30.615	59.665	1.00 15.17	AAAA
MOTA	2329	CD1	LEU	292	34.909			1.00 19.18	AAAA
ATOM	2330	CD2	LEU	292	36.792	32.190	60.252		AAAA
		C	LEU	292	33.564	35.327	60.396	1.00 16.62	
MOTA	2331				32.575	35.488	61.107	1.00 14.76	AAAA
ATOM	2332	0	LEU	292		35.932	59.216	1.00 18.62	AAAA
MOTA	2333	N	GLY	293	33.724			1.00 17.10	AAAA
	2334	CA	GLY	293	32.696	36.816	58.699	1.00 17.10	
ATOM			GLY	293	.31.611	35.954	58.068	1.00 23.44	AAAA
MOTA	2335	C			31.407	34.798	58.459	1.00 23.60	AAAA
MOTA	2336	C	GLY	293			57.085	1.00 24.96	AAAA
ATOM	2337	N	GLY	294	30.915	36.501			AAAA
	2338	CA	GLY	294	29.871	35.738	56.434		
MOTA			GLY	294	29.132	36.632	55.474	1.00 28.41	AAAA
ATOM	2339	С			29.605	37.722	55.167	1.00 25.66	AAAA
ATOM	2340	0	GLY	294		36.168	55.011	1.00 20.33	AAAA
MOTA	2341	N	GLY	295	27.972			1.00 20.14	AAAA
ATOM	2342	CA	GLY	295	27.164	36.936	54.085		AAAA
		C	GLY	295	26.742	38.244	54.730	1.00 25.34	
MOTA	2343			295	26.550	38.317	55.942	1.00 28.89	AAAA
MOTA	2344	.0	GLY				53.909	1.00 28.52	AAAA
ATOM	2345	N	GLY	296	26.614			1.00 23.21	AAAA
ATOM	2346	CA	GLY	296	26.230		54.367		AAAA
	2347	C	GLY	296	26.314	41.342	53.059	1.00 26.34	
MOTA				296	27.359	41.324	52.414	1.00 26.05	AAAA
MOTA	2348	0	GLY		25.235		52.662	1.00 22.61	AAAA .
ATOM	2349	N	TYR	297			51.360	1.00 22.58	AAAA
ATOM	2350	CA	TYR	297	25.228			1.00 22.50	AAAA
	2351	CB	TYR	297	24.265	41.861	50.457	1.00 23.68	
MOTA				297	24.502	40.352	50.521	1.00 25.14	AAAA
MOTA	3352	CG	TYR		23.981		51.568	1.00 28.31	AAAA
MOTA	2353		TYR	297				1.00 24.18	AAAA
ATOM	2354	CE1	TYR	297	24.269				AAAA
	2355		TYR	297	25.307	39.725		1.00 29.74	
ATOM				297	25.598	38.362	49.664	1.00 27.09	AAAA
MOTA	2: 36		TYR		25.085			1.00 28.68	AAAA
ATOM	257	CZ	TYR	297	25.003			1.00 28.17	AAAA
MOTA	2538	OH	TYR	297	25.407				AAAA
	2359	С	TYR	297	24.916	44.138			
atom				297	24.841	44.714	50.237	1.00 26.51	AAAA
ATOM	2360	0	TYR		24.740			1.00 23.80	AAAA
ATOM	2361	N	HIS	298					AAAA
MOTA	2362	CA	HIS	298	24.480				AAAA
	2363	CB	HIS	298.	23.325	5 46.494			
MOTA				298	22.956		53.551	1.00 32.94	AAAA
MOTA	2364	CG	HIS		23.491				AAAA
MOTA	2365		2 HIS	298					AAAA
ATOM	2366	ND	1 HIS	298	22.01				AAAA
	2367		1 HIS	298	21.978				
ATOM				298	22.86		5 - 53.788	1.00 36.57	AAAA
ATOM	2368		2 HIS						AAAA
MOTA	2369	С	HIS	298	25.75				AAAA
ATOM	2370		HIS	298	26.13				AAAA
			PRO	399	26.43	0 47.673			
ATOM	2371				26.07			1.00 27.42	AAAA
ATOM	2372			299					AAAA
ATOM	2373	CA	PRO	299	27.67				AAAA
	2374			299	28.04	1 49.22			AAAA
ATOM					26.67	8 49.60	0 51.196		
ATOM	2375					4 48.99		1.00 25.75.	AAAA
ATOM:	2376	; C	PRO	299	21.04	0.55			•

MOTA	2377	0	PRO	299	28.565	48.845	55.068	1.00 24.36	AAAA
ATOM	2378	N	TYR	300	26.602	49.769	54.504	1.00 24.48	AAAA
	_				26.495	50.478	55.766	1.00 22.94	AAAA
ATOM	2379		TYR	300					AAAA
MOTA	2380	CB	TYR	300	25.317	51.442	55.734	1.00 25.24	
ATOM	2381	CG	TYR	300	25.411	52.599	54.762	1.00 30.44	AAAA
	2382		TYR	300	26.366	52.634	53.746	1.00 26.01	AAAA
MOTA						53.676	52.819	1.00 29.66	AAAA
MOTA	2383		TYR	300	26.389				
MOTA	2384	CD2	TYR	300	24.490	53.640	54.827	1.00 31.37	AAAA '
ATOM	2385	CE2	TYR	300	24.501	54.677	53.916	1.00 35.88	AAAA
-				300	25.448	54.689	52.913	1.00 38.44	AAAA
MOTA	2386		TYR					1.00 33.41	AAAA
MOTA	2387	OH	TYR	300	25.417	55.700	51.990		
ATOM	2388	·C	TYR	. 300	26.280	49.515	56.921	1.00 22.80	AAAA
•	2389	Ō	TYR	300	26.895	49.643	57:983	1.00 19.14	AAAA
MOTA					25.374	48.568	56.705	1.00 23.08	AAAA
MOTA	2390	N	ALA	301					
ATOM	2391	CA	ALA	301	25.009	47.589	57.719	1.00 21.68	AAAA
ATOM	2392	CB	ALA	301	23.893	46.687	57.198	1.00 19.52	- AAAA
		c	ALA	301	26.216	46.762	58.098	1.00 23.49	AAAA
MOTA	2393					46.570	59.274	1.00 21.21	AAAA
MOTA	2394	0	ALA	301	26.507				
ATOM	2395	N	LEU	302	26.904	46.275	57.072	1.00 23.19	AAAA
ATOM	2396	CA	LEU	302	28.090	45.463	57.234	1.00 20.66	AAAA
				302	28.602	45.057	55.844	1.00 23.31	AAAA.
MOTA	2397	CB	LEU					1.00 36.66	AAAA
MOTA	2398	CG	LEU		29.932	44.335	55.611		
ATOM	2399	CD1	LEU	302	29.979	43.849	54.170	1.00 38.41	AAAA
	2400	CD2	LEII	302	31.104	45.255	55.879	1.00 28.52	AAAA
MOTA					29.165	46.204	58.012	1.00 22.08	AAAA
ATOM	2401	С	LEU	302				1.00 20.43	AAAA
MOTA	2402	0	LEU	302	29.653	45.713	59.020		
MOTA	2403	N	ALA	303	29.517	47.401	57.549	1.00 19.58	AAAA
ATOM	2404	CA	ALA	303	30.567	48.173	58.197	1.00 19.77	AAAA
				303	30.816	49.460	57.432	1.00 21.69	AAAA
MOTA	2405	CB	ALA					1.00 19.19	AAAA
ATOM	2406	С	ALA	303	30.324	48.485	59.657		
ATOM	2407	0	ALA	303	31.216	48.310	60.489	1.00 22.51	AAAA
ATOM	2408	N	ARG	304	29.128	48.954	59.993	1.00 20.12	AAAA
			ARG	304	28.872	49.296	61.377	1.00 18.04	AAAA
MOTA	2409	CA					61.511	1.00 21.09	AAAA
ATOM	2410	CB	ARG	304	27.566	50.114			
ATOM	2411	CG	ARG	304	27.532	51.481	60.792	1.00 24.34	AAAA
MOTA	2412	CD	ARG	304	26.259	52.259	61.206	1.00 27.09	AAAA
				304	25.090	51.398	61.116	1.00 45.73	AAAA
MOTA	2413	NE	ARG				61.808	1.00 39.82	AAAA
MOTA	2414	CZ	ARG	304	23.965	51.549			
MOTA	2415	NH1	ARG	304	23.813	52.550	62.677	1.00 28.40	AAAA
ATOM	2416	NH2	ARG	304	22.991	50.667	61.647	1.00 41.77	AAAA
			ARG	304	28.794	48.073	62.280	1.00 21.00	AAAA
MOTA	2417	С				48.087	63.397	1.00 19.45	AAAA
ATOM	2418	0	ARG	304	29.313				
ATOM	2419	N	ALA	305	28.159	47.008	61.796	1.00 19.93	AAAA
ATOM	2420	CA	ALA	305	28.002	45.809	62.610	1.00 18.70	AAAA
			ALA	305	26.998	44.830	61.933	1.00 18.26	AAAA
MOTA	2421	CB			29.311	45.109	62.915	1.00 16.46	AAAA
ATOM	2422	С	ALA	305					AAAA
MOTA	2423	0	ALA	305		44.736	64.061	1.00 .9.49	
ATOM	2424	N	TRP	306	30.152	44.909	61.905	1.00 1.92	AAAA
	2425	CA	TRP	306	31.423	44.268	62.183	1.00 18.99	AAAA
ATOM					32.151	43.865	60.902	1.00 17.96	AAAA
MOTA	2426	CB	TRP	306				1.00 21.34	AAAA
ATOM	2427	CG	TRP	306	31.632	42.564	60.333		
ATOM	2428	CD2	TRP	306	31.852	42.058	59.014	1.00 16.55	AAAA
	2429		TRP	306	31.243	40.785	58.949	1.00 19.37	AAAA
MOTA					32.507	42.556	57.878	1.00 17.80	AAAA
MOTA	2430		TRP	306					AAAA
MOTA	2431	CD1	TRP	306	30.919	41.610	60.995	1.00 19.88	
ATOM	2432		TRP	306	30.680	40.535	60.170	1.00 15.95	AAAA
			TRP	306	31.270	40.002	57.787	1.00 24.85	AAAA
ATOM	2433					41.781	56.725	1.00 29.69	AAAA
MOTA	2434		TRP	306	32.534				
MOTA	2435	CH2	TRP	306	31.917	40.513	56.691	1.00 17.04	AAAA
ATOM	2436	С	TRP	306	32.289	45.168	63.018	1.00 20.26	AAAA
				306	33.159	44.726		1.00 21.20	AAAA
ATOM	2437	0	TRP					1.00 18.60	AAAA
ATOM	2438	N	THR	307	.32.061	46.491			AAAA
ATOM	2439	CA	THR	307	32.843	47.412		1.00 16.88	
	2440	CB	THR	307	32.579	48.885	63.312	1.00 22.05	AAAA
ATOM				307	33.218			1.00 21.58	AAAA
ATOM	2441		THR					1.00 24.86	AAAA
ATOM	2442	CG2	THR	307	33.126	47.07/	04.720	1.00 24.00	

					•				
	2442	<u> </u>	THR	307	32.493	47.146	65.187	1.00 17.47	AAAA
ATOM	2443 2444	_	THR	307	33.377		• • • • •	1.00 18.94	AAAA
ATOM ATOM	2445	-	LEU	308	31.216	46.901		1.00 19.97	AAAA AAAA
ATOM	2446		LEU	308	30.834	46.587		1.00 22.54 1.00 21.13	AAAA
ATOM	2447		LEU	308	29.318	46.365	• • • • •	1.00 21.13	AAAA
ATOM	2448	CG	LEU	308	28.415	47.579		1.00 25.01	AAAA
ATOM	2449	CD1		308	26.937	47.219		1.00 29.09	AAAA
MOTA	2450	CD2	LEU	308	28.870	48.710		1.00 22.98	AAAA
ATOM	2451	_	LEU	308	31.578 32.056	45.331 45.250	68.479	1.00 22.27	AAAA
ATOM	2452		LEU	308	31.677	44.342	66.454	1.00 22.54	AAAA
MOTA	2453		ILE	309	32.377	43.114	66.801	1.00 17.09	AAAA
MOTA	2454		ILE ILE	309 309	32.318	42.073	65.664	1.00 18.12	AAAA
MOTA	2455	CB CG2		309	33.170	40.870	66.033	1.00 24.16	AAAA
MOTA	2456 2457	CG2		309	30.871	41.655	65.399	1.00 18.26	AAAA
MOTA MOTA	2458	CD1		309	30.205	40.989	66.586	1.00 26.57	AAAA AAAA
ATOM	2459	C	ILE	309	33.849	43.410	67.067	1.00 20.84 1.00 25:20	AAAA
MOTA	2460	0	ILE	309	34.426	42.905	68.031	1.00 25.20	AAAA
ATOM	2461	N	TRP	310	34.466	44.223	66.214 66.411	1.00 17.86	AAAA
ATOM	2462	CA	TRP	310	35.888	44.517 45.319	65.235	1.00 14.83	AAAA
ATOM	2463	CB	TRP	310	36.439 37.879	45.648	65.397	1.00 16.63	AAAA
MOTA	2464	CG	TRP	310	38.967	44.718	65.560	1.00 18.62	AAAA
MOTA	2465	CD2	TRP	310	40.131	45.478	65.799	1.00 25.60	AAAA
MOTA	2466	CE2	TRP	310 310	39.069	43.319	65.529	1.00 24.06	AAAA
MOTA	2467	CE3	TRP TRP	310	38.418	46.895	65.533	1.00 19.82	AAAA
MOTA	2468 2469	ME1	TRP	310	39.768	46.801	65.777	1.00 25.84	AAAA
MOTA MOTA	2470		TRP	310	41.383	44.887	66.006	1.00 26.14	AAAA AAAA
MOTA	2471	CZ3	TRP	310	40.308	42.730	65.735	1.00 24.89. 1.00 24.96	AAAA
MOTA	2472		TRP	310	41.452	43.515	65.971 67.733	1.00 20.86	AAAA
MOTA	2473	С	TRP	310	36.112	45.263 44.957	68.478	1.00 21.38	AAAA
ATOM	2474	0	TRP	310	37.050 35.242	46.226	68.030	1.00 24.22	AAAA
ATOM	2475	N	CYS	311	35.349	46.971	69.280	1.00 27.66	AAAA
MOTA	2476	CA	CYS	311 311	34.297	48.097	69.343	1.00 25.37	AAAA
ATOM	2477 2478	CB SG	CYS CYS	311	34.618	49.528	68.253	1.00 27.22	AAAA
ATOM	2479	C	CYS	311	35.224	46.042	70.490	1.00 22.95	AAAA AAA A
MOTA MOTA	2480	Ö	CYS	311	35.986	46.180	71.441	1.00 25.47 1.00 17.03	AAAA
ATOM	2481	N	GLU	312	34.284	45.089	70.457	1.00 17.03	AAAA
ATOM	2482	CA	GLU	312	34.120	44.129 43.110	71.569 71.280	1.00 20.81	. AAAA
ATOM	2483	CB	GLU	312	33.011	43.110		1.00 43.65	AAAA
ATOM	2484	CG	GLU	312	31.856 32.265			1.00 29.63	AAAA
ATOM	2485	CD	GLU	312 312	33.022			1.00 38.85	AAAA
ATOM	2486		GLU GLU	312	31.804	43.844	74.473	1.00 53.22	AAAA
MOTA	2487 2488		GLU	312	35.395	43.309	71.778		AAAA AAAA
ATOM	2489		GLi.	312	35.899	43.178			AAAA
ATOM ATOM	2490		LEU	313	35.899				AAAA
MOTA	2491		LEU	313	37.101				AAAA
ATOM	2492	CB	LEU	313	37.380				AAAA
ATOM	2493		LEU	313	36.403 36.839	_			AAAA
MOTA	2494		1 LEU	313	36.379		·		AAAA
ATOM	2495		2 LEU	313 313	38.343			1.00 18.21	AAAA
ATOM	2496		LEU LEU	313	39.119			1.00 21.48	AAAA
ATOM	2497		SER	314	38.492		3 70.580		AAAA
ATOM	2498 2499			314	39.62	7 44.753			А ААА А ААА
MOTA MOTA				314	39.62	5 45.82	1 69.663		AAAA
ATOM				314	40.73				AAAA
ATOM		-	SER		39.61				AAAA
ATOM			SER		40.63				AAAA
MOTA	2504	N	GLY		38.47° 38.39			9 1.00 33.84	AAAA
MOTA	250				38.39			5 1.00 36.93	AAAA
MOTA			GLY		38.81			2 1.00 37.00	AAAA
ATOM			GLY ARG	_	37.73	9 48.09		5 1.00 31.33	AAAA .
ATCM	250	D 1/1		7.10			•		•

57/263

ATOM	2509	CA	ARG	316	37.631	49.536	73.042	1.00 39.10	KAAA
MOTA	2510		ARG	316	38.347	50.108	71.830	1.00 45.15	AAAA
ATOM	2511		ARG	316	37.722	49.834	70.501	1.00 46.02	AAAA
MOTA	2512		ARG	316	38.620	50.459	69.449	1.00 44.83	AAAA
MOTA	2513		ARG	316 ·	39.898	49.767	69.357	1.00 37.91	AAAA
MOTA	2514		ARG	316	40.945	50.219	68.674	1.00 27.39	AAAA
MOTA	2515	NHl		316	40.854	51.371	68.034	1.00 50.24	AAAA
ATOM	2516	NH2		316	42.054	49.493	68.572	1.00 34.51	AAAA
ATOM	2517		ARG	316	36.179	49.984	73.058	1.00 35.43	AAAA
ATOM	2518		ARG	316	35.292	49.271	72.596	1.00 30.71	AAAA
MOTA	2519		GLU	317	35.931	51.162	73.612	1.00 34.06	AAAA
	2520	CA	GLU	317	34.569	51.663	73.671	1.00 37.96	AAAA
MOTA	2521	CB	GLU	317	34.481	52.914	74.552	1.00 43.60	AAAA
ATOM	2522	CG	GLU	317	33.961	52.630	75.960	1.00 60.36	AAAA
MOTA	2523	CD	GLU	317	34.768	51.575	76.701	1.00 70.70	AAAA
ATOM	2524	OE1		317	34.375	51.217	77.832	1.00 76.71	AAAA
ATOM	2525		GLU	317	35.793	51.104	76.162	1.00 78.36	AAAA
ATOM	2526	C	GLU	317	34.068	51.958	72.280	1.00 35.65	AAAA
ATOM		o	GLU	317	34.843	52.322	71.390	1.00 32.91	AAAA
MOTA	2527 2528	N	VAL	318	32.767	51.772	72.094	1.00 30.52	AAAA
MOTA		CA	VAL	318	32.138	52.012	70.808	1.00 37.04	AAAA
MOTA	2529 2530	CB	VAL	318	30.877	51.138	70.638	1.00 36.48	AAAA
MOTA		CG1		318	30.278	51.366	69.268	1.00 40.43	AAAA
MOTA	2531		VAL	318	31.222	49.674	70.846	1.00 33.75	AAAA
ATOM	2532		VAL	318	31.719	53.465	70.737	1.00 28.96	AAAA
ATOM	2533 2534	0	VAL	318	30.930	53.915	71.556	1.00 33.56	AAAA
ATOM		N	PRO	319	32.258	54.229	69.773	1.00 29.20	AAAA
ATOM	2535 2536	CD	PRO	319	33.243	53.924	68.726	1.00 31.62	AAAA
ATOM	2537	CA	PRO	319	31.858	55.637	69.684	1.00 28.99	AAAA
MOTA		CB	PRO	. 319	32.709	56.154	68.528	1.00 32.17	AAAA
MOTA	2538	CG	PRO	319	32.850	54.926	67.664	1.00 41.36	AAAA
ATOM	2539		PRO	319	30.365	55.680	69.377	1.00 36.95	AAAA
ATOM	2540 2541	С 0	PRO	319	29.847	54.795	68.695	1.00 32.86	AAAA
ATOM	2542	И	GLU	320	29.646	56.683	69.855	1.00 34.61	AAAA
MOTA		CA	GLU	320	28.230	56.657	69.544	1.00 35.13	AAAA
MOTA	2543	CB	GLU	320	27.419	57.416	70.595	1.00 52.97	AAAA
ATOM	2544 2545	CG	GLU	320	27.751	58.875	70.738	1.00 56.06	AAAA
ATOM	2546	CD	GLU	320	26.822	59.558	71.721	1.00 65.58	AAAA
MOTA	2547		GLU	320	25.604	59.619	71.444	1.00 64.27	AAAA
MOTA	2548		GLU	320	27.306	60.022	72.775	1.00 72.99	AAAA
MOTA	2549	C	GLU	320	27.943	57.192	68.153	1.00 35.13	AAAA
MOTA	2550	o	GLU	320	26.916	56.879	67.565	1.00 37.43	AAAA
ATOM	2551	N	LYS	321	28.880	57.953	67.604	1.00 28.22	AAAA
ATOM	2552	CA	LYS	321	28.700	58.555	66.289	1.00 36.58	AAAA
ATOM	2553	CB	LYS	321	28.666	60.071	66.454	1.00 44.87	AAAA
ATOM ATOM	2554	CG	LYS	321	29.987	60.606	67.023	1.00 55.73	AAA'
	2555	CD	LYS	321	30.305	60.020	68.410	1.00 57.27	.AAA
MOTA MOTA	2556	CE	LYS	321	31.733	60.310	68.840	1.00 54.59	AAA
ATOM	2557	NZ	LYS	321	32.024	61.774	68.848	1.00 67.47	AAAA
ATOM	2558	C	LYS	321	29.823	58.211	65.315	1.00 34.44	AAAA
MOTA	2559	ō	LYS	321	30.912	57.818	65.731	1.00 33.83	AAAA
	2560	N	LEU	322	29.549	58.354	64.019	1.00 30.21	AAAA
ATOM	2561	CA	LEU	322	30.575	58.135	62.998	1.00 29.45	SAAA
MOTA	2562	CB	LEU	322	29.966	57.677	61.677	1.00 32.21	AAA ?
ATOM	2563	CG	LEU	322	29.240	56.338	61.651	1.00 38.94	EAAA
ATOM	2564		LEU	322	29.008	55.977	60.186	1.00 38.44	LAAA
ATOM			LEU	322	30.072	55.261		1.00 42.11	LAAA
ATOM	2565 2566		LEU	322	31.228	59.503	62.783	1.00 33.28	LAAA
MOTA	2566	С	LEU	322	30.544	60.519		1.00 31.45	LAAA
ATOM	2567	0	ASN	323	32.533	59:539		1.00 34.38	AAAi
MOTA	2568	N		323	33.208	60.824		1.00 36.53	AAA
ATOM	2569	CA	ASN	323 323	34.701	60.737			AAA
ATOM	2570	CB	ASN	323	35.484	60.081			AAA.
ATCM	2571	CG	ASN	323	35.215				AAA
ATOM	2572	נמט	ASN	323	36.455				AAA
ATOM	2573		ASN		33.027				AAA
ATOM	2574	С	ASN	323	55.027	UZ. 1/1			• .

	2575	0	: CN	323	32.429	60.395		1.00 34.06	AAAA
MOTA	2575 2576		asn Asn	324	33.551	62.317		1.00 23.73	AAAA
ATOM ATOM	2577		ASN	324	33.385	62.720		1.00 31.06	AAAA AAAA
MOTA	2578		ASN	324	33.868	64.155		1.00 36.07 1.00 45.77	AAAA
ATOM	2579		ASN	324	32.974	65.163		1.00 39.55	AAAA
ATOM		OD1		324	31.765 33.555	65 ⁻ . 189 66 . 008		1.00 39.12	AAAA
MOTA	2581	ND2		324 324	34.047	61.810	57.971	1.00 24.87	AAAA
MOTA	2582 2583	C 0	ASN ASN	324	33.451	61.483	56.941	1.00 31.91	AAAA
MOTA MOTA	2584	N	LYS	325	35.276	61.405	58.250	1.00 27.73	AAAA AAAA
ATOM	2585	CA	LYS	325	35.991	60.538	57.333	1.00 29.55 1.00 37.43	AAAA
MOTA	2586	CB	LYS	325	37.351	60.182 59.396	57.929 57.004	1.00 44.84	AAAA
MOTA	2587	CG	LYS	325 325	38.250 39.684	59.435	57.502	1.00 50.89	AAAA
MOTA	2588	CD CE	LYS LYS	325	40.191	60.873	57.561	1.00 54.82	AAAA
MOTA MOTA	2589 2590	NZ	LYS	325	41.621	60.980	57.969	1.00 65.70	AAAA
ATOM	2591	.C	LYS	325	35.161	59.279	57.078	1.00 27.99 1.00 31.80	AAAA AAAA
ATOM	2592	0	LYS ·	325	35.016	58.836	55.938 58.142	1.00 26.07	AAAA
ATOM	2593	N	ALA	326	34.602 33.781	58.721 57.506	58.030	1.00 24.38	AAAA
MOTA	2594	CA	ALA ALA	326 326	33.470	56.982	59.428	1.00 27.34	AAAA
MOTA	2595 2596	CB C	ALA	326	32.478	57.709	57.231	1.00 25.78	AAAA
MOTA MOTA	2597	ō	ALA	326	32.131	56.890	56.369	1.00 27.37 1.00 27.31	AAAA AAAA
MOTA	2598	N	LYS	327	31.749	58.790	57.496 56.758	1.00 27.31	AAAA
ATOM	2599	CA	LYS	327	30.502 29.759	59.027 60.251	57.313	1.00 28.87	AAAA
ATOM	2600	CB	LYS LYS	327 327	29.491	60.209	58.812	1.00 36.72	AAAA
ATOM	2601 2602	CG CD	LYS	327	28.643	61.407	59.255	1.00 40.34	AAAA
ATOM ATOM	2603	CE	LYS	327	28.645	61.594	60.769	1.00 38.91 1.00 47.67	AAAA AAAA
ATOM-	2604	NZ	LYS	327	28.163	60.429	61.556 55.269	1.00 47.07	AAAA
MOTA	2605	C	LYS	327	30.792 30.097	59.244 58.719	54.393	1.00 27.75	AAAA
MOTA	2606	0	LYS GLU	327 328	31.829	60.015	54.972	1.00 31.59	AAAA
MOTA	2607 2608	N CA	GLU	328	32.167	60.265	53.581	1.00 28.93	AAAA AAAA
MOTA MOTA	2609	СВ	GLU	328	33.257		53.515	1.00 32.30 1.00 47.50	AAAA
MOTA	2610	CG	GLU	328	32.745		54.067 54.032	1.00 47.50	AAAA
ATOM	2611	CD	GLU	328	33.764 34.325		52.951	1.00 56.88	AAAA
MOTA	2612		GLU GLU	328 328	33.984		55.087	1.00 42.24	AAAA
MOTA MOTA	2613 .2614	C	GLU	328	32.575	58.975		1.00 30.46	AAAA AAAA
ATOM	2615	ŏ	GLU	328	32.226			1.00 26.29 1.00 24.93	AAAA
ATOM	2616	N	LEU	329	33.292			1.00 24.80	AAAA
ATOM	2617	CA	LEU	329	33.701 34.478			1.00 25.70	AAAA
ATOM	2618	CB CG	LEU	329 329	34.730	54.522	53.703	1.00 19.71	AAAA
ATOM ATOM	2619 2620		1 LEU	329	· 3.569	54.413		1.00 25.26	AAAA AAAA
ATOM	2621		2 LEU	329	5.412.	53.833		1.00 24.73 1.00 23.50	AAAA
ATOM	2622	С	LEU	329	2.443	56.059 55.650	52.603 51.453	1.00 25.60	AAAA
MOTA			LEU	329	32.310 31.516			1.00 23.02	AAAA
MOTA	2624		LEU	330	30.289			1.00 23.85	AAAA
MOTA				330	29.414	55.030		1.00 21.74	AAAA AAAA
MOTA MOTA				330	30.039				AAAA
ATOM		CD	1 LEU	330	28.984				AAAA
MOTA			2 LEU	330	30.538			1.00 26.94	AAAA
ATOM			LEU	330 330	28.96		51.252	1.00 26.65	AAAA
ATOM			LYS	331	29.40	4 57.09	7 52.111		AAAA AAAA
MOTA MOTA			LYS	331	28.66	7 57.79			AAAA
ATOM			LYS	331	28.53	7 59.293 4 59.56			AAAA
ATOM	2635	CG		331	27.81 27.68			1.00 42.75	AAAA
ATOM	2636		_	331 331	26.82			1.00 53.98	AAAA
ATOM					2663	4 63.18	5 52.234		AAAA AAA.
ATOM ATOM			LYS		29.31	5 57.62	8 49.692	1.00 30.07	АААА АААА
ATOM			LYS		28.63	4 57.75	9 48.672	1.00 36.20	,

								- 00 30 00	
MOTA	2641	N	SER	332	30.608	57.305	49.657	1.00 30.08	AAAA
ATOM	2642	CA	SER	332	31.322	57.153	48.385	1.00 33.35	AAAA
ATOM	2643	CB	SER	332	32.934	57.312	48.590	1.00 40.36	aaaa
			SER	332	33.396	56.169	49.219	1.00 34.04	AAAA
MOTA	2644	OG				55.821	47.693	1.00 37.72	AAAA
MOTA	2645	C	SER	332	31.061			1.00 30.78	አሕአλ
MOTA	2646	0	SER	332	31.354	55.661	46.507		
MOTA	2647	N	ILE	333	30.521	54.865	48.440	1.00 30.61	AAAA
ATOM	2648	CA	ILE	333	30.219	53.547	47.899	1.00 37.59	· AAAA
	2649	CB		. 333	29.901	52,551	49.022	1.00 33.59	AAAA
ATOM				333	29.738	51.146	48.442	1.00 37.05	AAAA
ATOM	2650		ILE			52.564	50.065	1.00 38.95	አሕጹሕ
ATOM	2651		ILE	333	31.015		51.282	1.00 46.83	AAAA
ATOM	2652	CD1	ILE	333	30.706	51.727			
ATOM	2653	С	ILE	333 .	28.990	53.620	46.998	1.00 43.41	AAAA
ATOM	2654	0	ILE	333	27.889	53.876	47.479	1.00 46.24	AAAA
	2655	N	ASP	334	29.158	53.423	45.696	1.00 47.97	AAAA
MOTA			ASP	334	27.976	53.447	44.847	1.00 53.47	- AAAA
ATOM	2656	CA			28.333	53.535	43.358.	1.00 61.52	AAAA
MOTA	2657	CB	ASP	334			42.897	1.00 64.75	AAAA
MOTA	2658	CG	ASP	334	29.223	52.406			AAAA
MOTA	2659	OD1	ASP	334	29.379	52.248	41.566	1.00 66.93	
MOTA	2660	OD2	ASP	334	29.779	51.691	43.758	1.00 65.93	AAAA
ATOM	2661	С	ASP	334	27.248	52.144	45.161	1.00 51.83	AAAA
		Ö	ASP	334	27.626	51.067	44.699	1.00 46.80	aaaa
ATOM	2662			335	26.215	52.249	45.986	1.00 54.96	AAAA
MOTA	2663	N	PHE			51.080	46.392	1.00 50.60	AAAA
MOTA	2664	CA	PHE	335	25.455			1.00 39.55	AAAA
MOTA	2665	CB	PHE	335	25.413	51.003	47.920		AAAA
MOTA	2666	CG	PHE	335	24.380	50.054	48.440	1.00 37.98	
ATOM	2667	CD1	PHE	335	24.389	48.715	48.054	1.00 46.72	AAAA
ATOM	0.00		PHE	335	23.362	50.506	49.262	1.00 34.23	AAAA
	2669	_	PHE	335	23.389	47.842	48.478	1.00 49.80	AAAA
ATOM				335	22.361	49.644	49.689	1.00 48.51	AAAA
ATOM	2670		PHE		22.373	48.309	49.296	1.00 40.44	AAAA
ATOM	2671	CZ	PHE	335			45.839	1.00 54.52	AAAA
MOTA	2672	С	PHE	335 _.	24.033	51.000		1.00 59.24	AAAA
ATOM	2673	0	PHE	335	23.603	49.939	45.379		
MOTA	2674	N	GLU	336	23.302	52.108	45.888	1.00 50.94	AAAA
ATOM	2675	CA	GLU	336	21.923	52.119	45.406	1.00 57.05	AAAA
	2676	CB	GLU	336	21.853	51.751	43.924	1.00 60.27	AAAA
MOTA			GLU	336	20.430	51.627	43.422	1.00 68.55	AAAA
MOTA	2677	CG			20.352	51.126	42.001	1.00 80.03	AAAA
MOTA	2678	CD	GLU	336		50.013	41.735	1.00 84.64	AAAA
MOTA	2679		GLU	336	20.860			1.00 80.68	AAAA
ATOM	2680	OE2	GLU	336	19.777	51.841	41.153		AAAA
ATOM	2681	С	GLU	336	21.065	51.135	46.201	1.00 55.73	
ATOM	2682	0	GLU	336	21.219	49.917	46.089	1.00 51.33	AAAA
ATOM	2683	N	GLU	337	20.151	51.679	46.992	1.00 49.54	AAAA
		CA	GLU	337	19.267	50.880	47.821	1.00 48.19	AAAA
ATOM	2684			337	18.510	51.822	48.764	1.00 47.73	AAAA
MOTA	2685	CB	GLU		18.084	51.205	50.077	1.00 55.69	AAAA
MOTA	2686	CG	GLU	337				1.00 50.17	AAAA
MOTA	2687	CD	GLU	337	19.269			1.00 36.03	AAAA
ATOM	2688	OE1	. GLU	337	20.111	51.548	51.345		AAAA
ATOM	2689	OE2	GLU	3 37	19.358				
ATOM	2690	С	GLU	337	18.294	50.083		1.00 49.13	AAAA
	2691	ō	GLU	337	17.816	50.588	45.916	1.00 48.61	AAAA
MOTA			PHE	338	18.015	48.837		1.00 48.15	AAAA
MOTA	2692	N			17.092	48.000		1.00 48.12	AAAA
MOTA	2693	CA	PHE	338	17.032			1.00 54.54	LAAA
MOTA	2694	CB	PHE	338	16.870	46.658		1.00 57.22	AAA
ATOM	2695	CG	PHE	338	15.883	45.777			LAA.
ATOM	2696	CD3	PHE	338	16.115	45.366		1.00 60.01	
ATOM	2697		PHE	338	14.699	45.398	47.171		AAA
			PHE	338	15.185				LAAA
ATOM	2698				13.758				AAAi
MOTA	2699		PHE	338					AAAi
ATOM	2700	CZ	PHE	338	14.002				AAAi
ATOM	2701	C	PHE	338	15.755	48.714			AAA
ATOM	2702	0	PHE	338	15.274	48.900			
MOTA	2703	N	ASP		15.154			1.00 40.38	AAA
	2704	CA	ASP		13.890				AAA
ATCM-		CB	ASP		13.270	49.821	48.886		AAA
MOTA	2705		ASP		12.000	50 659	48.968		AAA
ATOM	2706	CG	ASP		12.500		•		•
		•							

ATOM	2707	OD1	ASP	339	12.039	51.858	48.616	1.00 53.79	AAAA
ATOM	2708	OD2		339	10.963	50.118	49.401	1.00 51.15	AAAA
	2709		_		14.215	51.248	47.076	1.00 55.06	AAAA
ATOM		C	ASP	339					
MOTA	2710	0	ASP	339	14.994	51.922	47.748	1.00 56.47	AAAA
MOTA	2711	N	ASP	340	13.623	51.708	45.978	1.00 58.46	AAAA
ATOM	2712	CA	ASP	340	13.874	53.059	45.484	1.00 67.72	AAAA
MOTA	2713	CB	ASP	340	12.683	53.559	44.664	1.00 71.52	AAAA
ATOM	2714	CG	ASP	340	12.611	52.913	43.295	1.00 79.72	AAAA
ATOM	2715		ASP	340	12.528	51.667	43.224	1.00 86.74	AAAA
						53.655	42.288	1.00 83.40	AAAA
ATOM	2716	OD2		340	12.640				
MOTA	2717	С	ASP	340	14.209	54.072	46.572	1.00 69.65	AAAA
MOTA	2718	0	ASP	340	15.204	54.794	46.463	1.00 70.13	AAAA
MOTA	2719	N	GLU	341	13.392	54.130	47.620	1.00 67.11	AAAA
ATOM	2720	CA	GLU	341	13.668	55.077	48.689	1.00 67.87	AAAA
ATOM	2721	CB	GLU	341	13.195	56.478	48.278	1.00 74.87	AAAA
ATOM	2722	CG	GLU	341	13.502	57.576	49.298	1.00 82.72	AAAA
	2723	CD	GLU	341	13.162	58.974	48.790	1.00 90.80	AAAA
MOTA			GLU	341	11.988	59.215	48.431	1.00 90.38	AAAA
ATOM	2724						48.752	1.00 93.36	
MOTA	2725	OE2	GLU	341	14.072	59.835			AAAA
MOTA	2726	С	GLU	341	13.101	54.719	50.058	1.00 60.22	AAAA
MOTA	2727	0	GLU	341	11.929	54.955	50.347	1.00 58.81	AAAA
MOTA	2728	N	VAL	342	13.956	54.144	50.897	1.00 57.28	AAAA
ATOM	2729	CA	VAL	342	13.594	53.781	52.262	1.00 52.09	AAAA
ATOM	2730	CB	VAL	342	14.195	52.419	52.669	1.00 53.17	AAAA
MOTA	2731		VAL	342	13.730	52.042	54.070	1.00 46.16	AAAA
	2732		VAL	342	13.815	51.356	51.663	1.00 59.09	AAAA
ATOM					14.263	54.843	53.124	1.00 53.31	AAAA
ATOM	2733	C	VAL	342					
MOTA	2734	0	VAL	342	13.763	55.230	54.185	1.00 57.79	AAAA
MOTA	2735	N	asp	343	15.398	55.306	52.610	1.00 46.24	AAAA
ATOM	2736	CA	ASP	343	16.268	56.289	53.243	1.00 42.60	AAAA
ATOM	2737	CB	ASP	343 .	15.521	57.510	53.781	1.00 43.88	AAAA
ATOM	2738	CG	ASP	343	16.480	58.581	54.290	1.00 46.82	AAAA
ATOM	2739	0D1	ASP	343	16.028	59.581	54.887	1.00 46.16	AAAA
ATOM	2740		ASP	343	17.700	58.414	54.075	1.00 33.01	AAAA
ATOM	2741	C	ASP	343	17.012	55.636	54.395	1.00 35.45	AAAA
	•	0	ASP	343	16.487	55.480	55.502	1.00 29.39	AAAA
MOTA	2742				18.247	55.249	54.124	1.00 30.51	AAAA
MOTA	2743	N	ARG	344			55.140	1.00 29.43	AAAA
MOTA	2744	CA	ARG	344	19.059	54.613			
ATOM	2745	CB	ARG	344	19.736	53.377	54.561	1.00 30.10	AAAA
MOTA	2746	CG	ARG	344	18.803	52.258	54.180	1.00 33.95	AAAA
MOTA	2747	CD	ARG	344	17.981	51.770	55.365	1.00 20.92	AAAA
ATOM	2748	NE	ARG	344	17.120	50.673	54.936	1.00 29.72	AAAA
ATOM	2749	CZ	ARG	344	16.110	50.176	55.639	1.00 29.13	AAAA
ATOM	2750	NH1	ARG	344	15.805	50.668	56.835	1.00 29.63	AAAA
MOTA	2751		ARG	344	15.379	49.198	55.120	1.00 27.19	AAAA:
ATOM	2752	C	ARG	344	20.116	55.769	55.660	1.00 34.31	AAAA
				344	21.005	5557	56.391	1.00 29.09	AAAA
ATOM	2753	0	ARG	345	20.011	56. 45	55.294	1.00 28.34	AAAA
ATOM	2754	N	SER		20.999	57.839	55.715	1.00 30.95	AAAA
MOTA	2755	CA	SER	345				1.00 29.56	AAAA
ATOM	2756	CB	SER	345	20.669	59.199	55.109		
ATOM	2757	OG	SER	345	19.429	59.648	55.610	1.00 29.38	AAA A
ATOM	2758	.C	SER	345 .	21.137	57.988	57.230	1.00 30.92	AAA
ATOM	2759	0	SER	345	22.155	58.488	57.718	1.00 31.15	LAAA
MOTA	2760	73	TYR	346	20.116	57.576	57.975	1.00 25.64	LAAA
MOTA	2761	CA	TYR	346	20.158	57.659	59.433	1.00 26.81	LAAA
ATOM	2762	CB	TYR	346	18.823	57.189	60.006	1.00 34.41	LAAA
	2763	CG	TÝR		18.529	55.723	59.716	1.00 27.35	LAAA
ATOM			TYR	346	19.003	54.708	60.556	1.00 24.87	AAA
ATOM	2764					53.352	60.278	1.00 28.05	AAA
MOTA	2765		TYR	346	18.744			1.00 28.03	AAA
ATOM	2766	CD2		346	17.795	55.358	58.588		
ATOM	2767	CE2	TYR	346	17.533		. 58.297	1.00 26.59	AAA.
ATOM	2768	CZ	TYR	346	.18.008	53.015	59.145	1.00 33.75	AAA
ATOM	2769	ОН	TYR	346	17.737	51.691	58.855	1.00 26.06	AAA
ATCM	2770	C	TYR	346	21.277	56.766	59.977	1.00 25.57	AAA
ATOM	2771	ŏ	TYR	346	21.769	56.970	61.085	1.00 28.07	AAA
ATCM	2772	N	MET	347	21.666	55.761	59.198	1.00 29.08	AAA
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ATOM	2773	CA	MET	347	22.720	54.837	59.622	1.00 24.19	AAAA
MOTA	2774	CB	MET	347	22.844	53.678	58.628		
								1.00 24.87	AAAA
ATOM	2775	CG	MET	347	21.609	52.806	58.543	1.00 23.66	AAAA
MOTA	2776	SD	MET	347	21.780	51.503	57.267	1.00 27.02	AAAA
ATOM	2777	CE.	MET	347					
					22.115	52.375	55.896	1.00 37.69	AAAA
ATOM	2778	С	MET	347	24.054	55.540	59.737	1.00 29.45	AAAA
ATOM	2779	0	MET	347	24.937	55.092	60.479		
								1.00 28.08	AAAA
MOTA	2780	N	LEU	348	24.188	56.650	59.007	1.00 23.71	AAAA
MOTA	2781	CA	LEU	348	25.418	57.446	58.998	1.00 34.11	
									АААА
MOTA	2782	CB	LEU	348	25.463	58.351	57.757	1.00 25.37	AAAA
MOTA	2783	CG	LEU	348	25.320	57.785	56.344	1.00 30.38	AAAA
ATOM	2784	CD1	LEU	348	25.307	58.944	55.340		
								1.00 27.44	AAAA
ATOM	2785	CD2	LEU	348	26.459	56.814	56.041	1.00 36.44	AAAA
ATOM	2786	С	LEU	348	25.507	58.332	60.237	1.00 36.09	AAAA
MOTA	2787	0	LEU	348	26.561	58.894	60.539	1.00 33.30	AAAA
MOTA	2788	N	GLU	349	24.394	58.445	60.953	1.00 30.51	AAAA
ATOM	2789	CA	GLU	349	24.313		62.136		
								1.00 35.53	AAAA
ATOM	2790	CB	GLU	349	22.908	59.896	62.217	1.00 31.35	AAAA
MOTA	2791	CG	GLU	349	22.518	60.717	61.006	1.00 29.09	AAAA
ATOM	2792	CD	GLU	349	23.481				
						61.859	60.746	1.00 31.78	AAAA
ATOM	2793	OE1	GLU	349	23.937	62.476	61.730	1.00 30.98	AAAA
ATOM	2794	OE2	GLU	349	23.766	62.155	59.569	1.00 30.67	AAAA
MOTA	2795	С	GLU	349	24.663	58.633	63.471	1.00 38.48	AAAA
ATOM	2796	0	GLU	349	24.727	59.303	64.502	1.00 40.12	AAAA
ATOM	2797	N	THR	350	24.878	57.326	63.461	1.00 33.58	
									KAA A
MOTA	2798	CA	THR	350	25.221	56.612	64.681	1.00 29.74	AAAA
MOTA	2799	CB	THR	350	23.992	56.363	65.559	1.00 35.91	AAAA
ATOM	2800	OG1	THR	350	23.421	57.615	65.952	•	
								1.00 45.03	AAAA
ATOM	2801	CG2	THR	350	24.382	5 5.586	66.806	1.00 49.48	AAAA
MOTA	2802	C	THR	350	25.821	55.267	64.330	1.00 30.63	AAAA
ATOM	2803	0	THR	350	25.535	54.709	63.274	1.00 26.62	AAAA
ATOM	2804	N							
			LEU	351	26.644	54.740	65.225	1.00 29.07	AAAA
ATOM	2805	CA	LEU	351	27.271	53.461	64.972	1.00 24.59	AAAA
MOTA	2806	CB	LEU	351	28.584	53.367	65.757	1.00 29.91	AAAA
ATOM	2807	CG	LEU	351	29.591	52.327			
							65.267	1.00 39.62	AAAA
ATOM	2808	CD1		351	30.887	52.467	66.039	1.00 37.09	AAAA
MOTA	2809	CD2	LEU	351	29.024	50.935	65.415	1.00 54.03	AAAA
ATOM	2810	С	LEU	351	26.314	52.336	65.377	1.00 29.71	AAAA
								-	
ATOM	2811	0	LEU	351	26.130	51.364	64.641	1.00 30.53	AAAA
ATOM	2812	N	LYS	352	25.697	52.481	66.543	1.00 28.64	AAAA
MOTA	2813	CA	LYS	352	24.763	51.479	67.061	1.00 32.72	AAAA
ATOM	2814			352		51.381			
		CB	LYS		24.913		68.581	1.00 27.37	AAAA
MOTA	2815	CG	LYS	352	26.230	50.787	69.034	1.00 43.48	AAAA
MOTA	2816	CD	LYS	352	26.536	51.068	70.504	1.00 46.77	AAAA
	2817								
MOTA		CE	LYS	352	25.484	50.538	71.451	1.00 51.52	AAAA
MO A	2818	NZ	LYS	352	25.850	50.859	72.866	1.00 62.08	AAAA
MO'1 A	2819	С	LYS	352	23.330	51.856	66 731	1.00 32.49	AAAA
A LOM	2820	Ċ	LYS	352	22.953	53.010	66.882		
								1.00 31.90	AAAA
ATOM	2821	11	ASP	353	22.525	50.916	66.244	1.00 31.44	AAAA
ATOM	2822	CA	ASP	353	21.136	51.286	66.012	1.00 26.50	AAAA
ATOM	2823		ASP	353	20.543				
						50.635	64.746	1.00 50.09	AAAA
MOTA	2824	CG	ASP	353	20.880	49.176	64.604	1.00 52.79	AAAA
MOTA	2825	OD1	7 C D	353	21.980	48.861	64.109	1.00 58.55	AAAA
ATOM	2826	OD2		353	20.040	48.339	64.984	1.00 73.19	AAAA
MOTA	2827	С	ASP	353	20.328	50.930	67.257	1.00 26.41	AAAA
ATOM	2828		ASP	353	20.806	50.214	68.136	1.00 25.73	AAAA
ATOM	2829	И	PRO	354	19.118	51.481	67.385	1.00 30.12	AAAA
ATOM	2830	CD	PRO	354	18.428	52.429	66.495	1.00 35.38	AAAA
MOTA	2831	CA	PRO	354	18.276	51.190	68.547	1.00 34.02	AAAA
ATOM	2832	CB	PRO	354	17.091	52.129	68.340	1.00 32.25	AAAA
ATCM	2833	CG	PRO	354	16.974	52.139	66.833	1.00 44.48	AAAA
ATCM	2834	С	PRO	354	17.838	49.736	68.512	1.00 34.00	جممم
	2835	ŏ	PRO	354	17.829	49.111	67.452		
ATOM								1.00 28.28	AAAA
ATCM	2836	N	TRP	355	17.484	49.190	69.664	1.00 23.89	AAA A
ATOM	2837	CA	TRP	355	17.010	47.818	69.669	1.00 33.84	AAA
ATOM	2838	CB	TRP	355	16.653	47.363	71.076	1.00 33.84	AAAi
	2000	-		, , ,	20.000	505		7.00 JJ.04	CLUST
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ATOM	2839	CG	TRP	355	17.844	46.946	71.832	1.00 49.97	AAAA
MOTA	2840	CD2	TRP	355	18.364	45.622	71.905	1.00 46.60	AAAA
MOTA	2841	CE2	TRP	355	19.567	45.682	72.639	1.00 54.73	AAAA
MOTA	2842		TRP	355	17.931	44.386	71.419	1.00 46.90	AAAA
ATOM	2843	CD1		355	18.723	47.746	72.507	1.00 56.10	AAAA
ATOM	2844	NE1		355	19.765	46.991	72.997	1.00 56.07	AAAA
MOTA	2845	CZ2		355 355	20.340	44.552 43.267	72.897 71.674	1.00 55.25 1.00 50.74	AAAA AAAA
MOTA	2846	CZ3		355	18.696 19.887	43.356	72.405	1.00 50.68	AAAA
MOTA MOTA	2847 2848	CH2	TRP	355 355	15.789	47.712	68.776	1.00 33.12	AAAA
ATOM	2849	0	TRP	355 -	15.096	48.705	68.550	1.00 29.41	AAAA
MOTA	2850	N	ARG	356	15.547	46.508	68.263	1.00 23.90	AAAA
ATOM	2851	CA	ARG	356	14.413	46.237	67.387	1.00 23.96	AAAA
ATOM	2852	CB	ARG	356	14.892	46.096	65.935	1.00 22.66	AAAA
ATOM	2853	CG	ARG	356	15.505	47.385	65.393	1.00 29.06	AAAA
MOTA	2854	CD	ARG	356	16.291	47.212	64.108	1.00 28.92	AAAA
MOTA	2855	NE	ARG	356	16.833	48.503	63.686	1.00 24.73	AAAA
MOTA	2856	CZ	ARG	356	17.733	48.668	62.724	1.00 23.57	AAAA
MOTA	2857		ARG	356 356	18.209 18.153	47.616 49.891	62.066 62.418	1.00 22.15 1.00 22.69	АААА АААА
ATOM	2858 2859	NH2 C	ARG ARG	356 356	13.781	44.944	57.878	1.00 22.09	AAAA
MOTA MOTA	2860	0	ARG	356	13.785	43.925	67.189	1.00 22.25	AAAA
ATOM	2861	И	GLY	357	13.231	44:993	69.065	1.00 23.91	AAAA
ATOM	2862	CA	GLY	357	12.631	43.805	69.657	1.00 26.72	AAAA
ATOM	2863	C	GLY	357	11.138	43.671	69.465	1.00 26.90	AAAA
MOTA	2864	0	GLY	357	10.536	44.330	68.619	1.00 29.87	AAAA
MOTA	2865	N	GLY	358	10.544	42.797	70.265	1.00 28.22	AAAA
MOTA	2866	CA	GLY	358	9.118	42.561	70.188	1.00 30.96	AAAA
MOTA	2867	С	GLY	358	8.800	41.274	70.920	1.00 30.03	AAAA
ATOM	2868	0	GLY	358	9.626	40.757	71.663	1.00 24.03 1.00 28.34	AAAA AAAA
ATOM	2869	N	GLU	359	7.601 7.218	40.747 39.509	70.715 71.366	1.00 24.37	AAAA
MOTA	2870 2871	CA CB	GLU	359 359	5.699	39.372	71.375	1.00 32.52	AAAA
MOTA MOTA	2872	CG	GLU	359	4.981	40:327	72.299	1.00 45.44	AAAA
ATOM	2873	CD	GLU	359	3.472	40.250	72.132	1.00 50.43	AAAA
ATOM	2874		GLU	359	2.924	39.125	72.151	1.00 42.92	AAAA
ATOM	2875	OE2	GLU	359	2.839	41.316	71.987	1.00 40.72	AAAA
MOTA	2876	C	GLU	359	7.804	38.323	70.628	1.00 27.35	AAAA
MOTA	2877	0	GLU	359	8.138	38.415	69.449	1.00 22.94	AAAA AAAA
ATOM	2878	N	VAL	360	7.944 8.441	37.208 36.017	71.325 70.672	1.00 19.68 1.00 21.28	AAAA
ATOM	2879	CA	VAL	360 360	9.300	35.188	71.621	1.00 26.71	AAAA
MOTA ATOM	2880 2881	CB CG1	VAL	360	9.783	33.917	70.912	1.00 20.64	AAAA
ATOM	2882		VAL	360	10.486	36.038	72.113	1.00 25.79	AAAA
MOTA	2683	c	VAL	360	7.228	35.202	70.197	1.00 25.51	AAAA
ATOM		0	VAL	360	6.442	34.700	71.01'	1.00 19.75	AAAA
ATOM	2885	N	ARG	361	7.065	35.094	68.87.3	1.00 18.48	AAAA
ATOM	2886	CA	ARG	361	5.947		68.30`	1.00 22.01	AAAA
ATOM	2887	CB	ARG	361	5.988	34.389	66.772	1.00 19.31	AAAA AAAA
ATOM	2888	CG	ARG	361	5.446	35.671 35.730	66.204 64.723	1.00 30.86 1.00 37.95	AAAA
ATOM	2889	CD	ARG	361 361	5.735 7.111	36.148	64.460	1.00 30.73	AAAA
MOTA MOTA	2890 2891	NE CZ	ARG ARG	361	7.616	36.275	63.242	1.00 22.89	AAAA
ATOM	2892		ARG	361	6.851	36.006		1.00 19.02	AAAA
ATOM	2893		ARG	361	8.861	36.704	63.081	1.00 23.47	AAAA
ATOM	2894	С	ARG	361	5.897	32.879	68.714	1.00 26.11	AAAA
ATOM	2895	Ö	ARG	361	6.926	32.255	68.968	1.00 21.79	AAAA
ATCM	2896	53	LYS	362	4.681	32.338	68.763	1.00 24.89	AAAA
ATOM	2897	СA	LYS	362	4.479	30.938	69.125	1.00 28.63	AAAA
ATOM	2898	CB	LYS	362	2.981		69.070	1.00 22.91	аааа аааа
ATOM	2899	CG	LYS	362	2.145	31.200	70.168 70.157	1.00 50.86 1.00 57.51	aaaa Aaaa
ATOM	2900	CD	LYS	362	2.290 1.923	32.715 33.278	68.799	1.00 50.87	AAAA
ATOM	2901	CE NZ	LYS LYS	362 362	2.307	34.683	68.711	1.00 22.99	AAAA
ATOM	2902 2903	NZ C	LYS	362	5.269	30.014	68.202	1.00 16.77	AAAA
atom atom	2904	ō	LYS	362	5.808	29.007		1.00 22.90	AAAA
- 1 CI1		_					-		_

ATOM	2905	N	GLU	363	5.311	30.355	66.913	1.00 25.24	
MOTA	2906	CA	GLU		6.055	29.577	65.910	1.00 26.29	AAAA
ATOM	2907	CB	_						AAAA
			GLU		5.207	30.342	64.608	1.00 33.50	AAAA
ATOM	2908	CG	GLU		4.999	30.639	63.824	1.00 48.73	ääää
ATOM	2909	CD	GLU	363	5.368	31.494	62.638	1.00 42.01	AAAA
ATOM -	2910	OE1	GLU	363	6.299	31.087	61.895	1.00 28.50	AAAA
ATOM	· 2911		GLU		4.738	32.558	62.461	1.00 44.91	
ATOM	2912	c	GLU						AAAA
					7.481	29.326	66.349	1.00 19.00	ÀAAÀ
MOTA	2913	0	GLU	363	8.011	28.218	66.226	1.00 18.66	AAAA
MOTA	2914	23	VAL	364	8.121	30.399	66.790	1.00 20.69	AAAA
ATOM	2915	CA	VAL	364	9.501	30.303	67.219	1.00 23.13	AAAA
ATOM	2916	CB	VAL		10.096	31.681	67.510	1.00 16.98	
ATOM	2917		VAL		11.515				AAAA
						31.513	68.010-	_	AAAA
ATOM	2918		VAL	364	10.082	32.548	66.242	1.00 23.99	AAAA
MOTA	2919	С	VAL	364	9.625	29.415	68.448	1.00 19.28	AAAA
MOTA	2920	0	VAL	364	10.507	28.548	68.510	1.00 20.17	- AAAA
ATOM	2921	N	LYS	365	8.735	29.600	69.417	1.00 21.11	AAAA
ATOM	2922	CA	LYS	365	8.780	28.768	70.612	1.00 18:15	
ATOM	2923	CB	LYS	365	7.711	29.210			AAAA
ATOM	2924						71.626	1.00 25.22	aaaa
		CG	LYS	365	7.921	30.611	72.167	1.00 32.99	AAAA
ATOM	292,5	CD	LYS	365	6.901	30.949	73.253	1.00 36.09	AAAA
ATOM	2926	CE	LYS	365	7.121	32.357	73.790	1.00 28.99	AAAA
ATOM	2927	NZ	LYS	365	5.178	32.736	74.882	1.00 38.98	AAAA
ATOM	2928	C	LYS	365	8.574	27.305	70.236	1.00 19.49	
ATOM	2929	ō	LYS	365	9.255	26.417			AAAA
ATOM	2930	N					70.758	1.00 22.04	AAAA
			ASP	366	7.635	27.048	69.327	1.00 22.45	સ્ત્ર <u>ે</u> ત્ર
ATOM	2931	CA	ASP	366	7.386	25.669	68.915	1.00 22.62	AAAA
ATOM	2932	CB	ASP	366	. 6.173	25.574	67.967	1.00 21.69	AAAA
MOTA	2933	CG	ASP	366	4.870	25.987	68.634	1.00 27.75	AAAA
ATOM	2934	001	ASP	366	4.763	25.890	69.881	1.00 31.01	AAAA
ATOM	2935		ASP	366	3.938	26.382	67.907		
ATOM	2936	C	ASP					1.00 33.20	AAAA
				366	8.606	25.034	68.237	1.00 24.53	AAAA
ATOM	2937	0	ASP	366	8.924	23.871	68.480	1.00 21.13	AAAA
ATOM	2938	21	THR	367	9.281	25.787	67.380	1.00 26.19	AAAA
MOTA	2939	CA	THR	367	10.462	25.252	66.694	1.00 21.68	AAAA
ATOM	2940	CB	THR	367	11.035	26.301	65.742	1.00 14.56	AAAA
ATOM	2941	CG1	THR	367	10.085	26.545	64.697	1.00 21.76	AAAA
ATOM	2942	CG2	THR	367	12.340	25.825			
MOTA	2943	C					65.138	1.00 19.83	AAAA
			THR	367	11.523	24.822	67.710	1.00 19.02	AAAA
ATOM	. 2944	0	THR	367	12.071	23.717	67.625	1.00 21.79	AAAA
MOTA	2945	53	LEU	368	11.802	25.684	68.683	1.00 18.42	AAAA
MOTA	2946	CA	LEU	368	12.797	25.348	69.700	1.00 21.02	٨٨٨٨
ATOM	2947	CB	LEU	368	13.148	26.569	70.560	1.00 17.34	AAAA
ATOM	2948	CG	LEU	368	14.206	27.518	69.959	1.00 17.45	AAAA
ATOM	2949		LEU	368	15.525	26.758	69.817	1.00 16.83	
ATOM	2950		LEU	368	13.756				AAAA
						28.041	68.593	1.00 19.49	KAAA
MOTA	2951	<i>:</i>		368	12.361	24.189	70.589	1.00 23.17	AAAA
ATOM	2952	<u> </u>	LEU	368	13.203	23.420	71.052	1.00 24.81	AAAA
MOTA	3953	H	GLU	369	11.059	24.055	70.839	1.00 23.97	AAAA
ATOM	2954	CA	GLU	369	10.597	22.929	71.653	1.00 19.36	AAAA
MOTA	2955	CB	GLU	369	9.127	23.113	72.063	1.00 21.81	
ATOM	2955	CS	GLU	369	8.913				AAAA
						24.225	73.100	1.00 40.15	AAAA
ATOM	2957	CD	GLU	369		24.416	73.487	1.00 49.38	AAAA
ATOM	2958	CEI		369	6.806	23.429	73.905	1.00 43.26	AAAA
ATOM	2959	OE3	GLU	369	6.948	25.558	73.382	1.00 57.31	AAAA
ATOM	2960	C	GLU	369	10.778	21.623	70.859	1.00 24.29	AAAA
ATOM	2961		GLU	369	11.172	20.605	71.420	1.00 25.96	AAAA
ATOM	2962		LYS	370	10.488	21.643			
							69.560	1.00 22.98	AAAA
ATOM	2963		LYS	370	10.665	20.437	68.746	1.00 23.19	AAAA
ATOM	2964		LYS	3 70	10.051	20.596	67.347	1.00 26.83	AAAA
ATOM	2965	CG	LYS	370	8.537	20.461	67.287	1.00 36:68	AAAA
ATOM	2966		LYS	370	3.056	20.431	65.832	1.00 39.85	AAAA
ATOM	2967		LYS	370	6.567	20.105	65.740	1.00 56.23	AAAA
ATOM	2968		LYS	370	6.082	19.996	64.326		
								1.00 56.10	AAAA
ATOM	2969		LYS	370	12.148	20.123	68.602	1.00 31:63	AAAA
ATOM	2970	O	LYS	370	12.549	18.958	68.587	1.00 36.88	AAAA

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ATOM	2971	N	ALA	371	12.961	21.170	68.491	1.00 26.25	AAAA
				371	14.407	21.009	68.360	1.00 27.33	AAAA
MOTA	2972	CA	ALA						
ATOM	2973	CB	ALA	371	15079	22.370	68.188	1.00 23.70	AAAA
ATOM	2974	С	ALA	371	14.989	20.308	69.581	1.00 26.74	AAAA
	-			371	15.892	19.482	69.452	1.00 29.52	AAAA
MOTA	2975	0	ALA'						
MOTA	2976	N	ALA	372	14.484	20.652	70.764	1.00 24.83	AAAA
ATOM	2977	CA	ALA	372	14.959	20.055	72.012	1.00 34.24	AAAA
					14.305	20.750	73.214	1.00 37.17	AAAA
MOTA	2978	CB	ALA	372					
ATOM	2979	С	ALA	.372	14.663	18.564	72.061	1.00 45.62	AAAA
ATOM	2980	0	ALA	372	15.563	17.741	72.280	1.00 35.52	AAAA
					13.394	18.216	71.869	1.00 44:50	AAAA
ATOM	2981	N	ALA	373					
ATOM	2982	CA	ALA	373	13.004	16.813	71.892	1.00 49.88	AAAA
ATOM	2983	CB	ALA	373	11.506	16.681	71.628	1.00 49.32	AAAA
				373	13.807	16.072	70.825	1.00 44.64	AAAA
atom	2984	С	ALA						
ATOM	2985	0	ALA	373	14.669	15.250	71.201	1.00 58.19	AAAA
MOTA	2986	OXT	AT.A	373	13.591	16.337	69.626	1.00 41.63	AAAA
					36.368	43.907	49.242	1.00 13.03	SOLV
HETATM		OHZ		1					SOLV
HETATM	2988	OH2	TAW	2	23.107	30.584	59.802	1.00 11.42	
HETATM		OH2	WAT	3 .	20.594	33.744	61.457	1.00 14.73	SOLV
				4	31.359	16.551	51.590	1.00 19.84	SOLV
HETATM			WAT						SOLV
HETATM	2991	OH2	TAW	5	30.389	18.140	45.769	1.00 19.94	
HETATM	2992	CH2	WAT	6	16.925	41.748	56.551	1.00 13.33	SOLV
				7	28.448	16.084	62.316	1.00 14.08	SOLV
HETATM			TAW				55.678	1.00 19.10	SOLV
HETATM	2994	OH2	WAT	8	40.375	38.476			
HETATM	2995	OH2	TAW	9	18.455	29.667	54.797	1.00 18.81	SOLV
HETATM			WAT	10	26.305	18.390	59.507	1.00 16.65	SOLV
							58.142	1.00 16.53	SOLV
HETATM		OH2	WAT	11	50.145	32.063			
HETATM	2998	OH2	TAW	12	45.935	30.996	40.672	1.00 25.08	SOLV
HETATM			WAT	13	26.358	43.110	74.179	1.00 22.91	SOLV
				•	48.727	24.720	56.917	1.00 25.49	SOLV
HETATM			WAT	14					
HETATM	3001	OH2	WAT	15	30.244	18.663	50.165	1.00 25.78	SOLV
HETATM		OH2	TAW	16	10.615	28.799	63.631	1.00 22.40	SOLV
				17	18.401	20.018	62.704	1.00 21.46	SOLV
HETATM			TAW					1.00 26.19	SOLV
HETATM	3004	OH2	WAT	18	22.195	47.791	60.896		
HETATM	3005	OH2	WAT	19	3:278	32.141	65.350	1.00 20.38	SOLV
HETATM			TAW	20	23.643	22.897	59.512	1.00 21.27	SOLV
							48.818	1.00 19.73	SOLV.
HETATM			TAW	. 21	50.287	23.101			
HETATM	3008	OH2	WAT	22	44.725	34.256	46.541	1.00 18.74	SOLV
HETATM			TAW	23	8.346	30.527	49.922	1.00 22.33	SOLV
					39.855	33.795	67.390	1.00 20.43	SOLV
HETATM		OHZ	TAW	24				1.00 19.24	SOLV
HETATM	3011	OH2	TAW	25	7.827	32.763	57.779		
HETATM		CH2	WAT	26	45.388	34.567	36.246	1.00 20.86	SOLV
			WAT	27	47.636	32.244	33.368	1.00 20.41	SOLV
HETATM						35.684	41.278	1.00 24.76	SOLV
HETATM	3014	OH2	WAT	28	32.514				SOLV
HETATM	3015	OH2	TAW	29	26.188	15.341	61.913	1.00 19.63	
HETATM			WAT	30	14.957	43.169	56.333	1.00 23.80	SOLV
						43.556	55.704	1.00 27.25	SOLV
HETATM	3017		WAT	31				1 00 25 00	SOLV
HETATM	3018	OH2	TAW	32	41.141	16.376	48.456	1.00 25.99	
HETATM			WAT	33	23.104	17.625	54.086	1.00 26.37	SOLV
				34	51.301	28.602	57.694	1.00 32.78	SOLV
HETATM			TAW				53.156	1.00 24.27	SOLV
HETATM	3021	OH2	WAT	35	51.376	29.469		1.00 24.27	
HETATM	3022	OH2	WAT	36	12.518	22.131	49.816	1.00 23.60	SOLV
HETATM			WAT	37	6.521	27.442	50.861	1.00 25.87	SOLV
					30.390	33.757	34.190	1.00 19.87	SOLV
HETATM			WAT	38					SOLV
HETATM	3025	OH2	WAT	39	8.328	29.586 [.]	62.062	1.00 32.01	
HETATM			WAT	40	30.180	24.235	30.724	1.00 22.61	SOLV
					44.521	30.663	38.395	1.00 27.52	SOLV
HETATM			TAW	41				1.00 23.45	SOLV
HETATM	3028	OH2	WAT	42	30.981	18.043	41.186		
HETATM			WAT	43.	14.632	37.127	73.830	1.00 29.36	SOLV
				44	39.332	25.953	72.230	1.00 21.87	SOLV
HETATM			TAW				51.896	1.00 39:62	SOLV
HETATM	3031	OH2	TAW	45	7.597	37.592			
HETATM		OH2	WAT	46	15.027	18.079	54.827	1.00 26.65	SOLV
			WAT	47	11.076	45.493	66.435	1.00 38.18	SOLV
HETATM					42.124	18.055	37.233	1.00 28.62	SOLV
HETATM			TAW	48				1.00 31.88	SOLV
HETATM		OH2	WAT	49	48.736	25.764	64.149		
HETATM	3036		WAT	50	50.383	27.254	54.972	1.00 24.36	SOLV
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HETATM	3037	CH2	TAT	51	48.659	36.025	68.226	1.00 33.89	CO1 11
HETATM									SOLV
			TĄW	52	36.998	27.228	71.440	1.00 21.03	SOLV
HETATM	3039	OH2	WAT	53	41.303	16.309	55.307	1.00 32.23	SOLV
HETATM									
			WAT	54	33.242	39.524	49.454	1.00 29.77	SOLV
HETATM	3041	OH2	WAT	55	45.004	25.973	35.031	1.00 21.59	SOLV
HETATM			WAT						
				56	19.039	25.829	45.793	1.00 33.48	SOLV
HETATM	3043	OH2	WAT	57	17.922	35.542	50.154	1.00 37.51	SOLV
HETATM									SOLV
			WAT	58	10.409	26.864	73.166	1.00 26.54	SOLV
HETATM	3045	OH2	'VAT	59	11.835	22.805	59.408	1.00 20.83	
									SOLV
HETATM			TAW	60 .	18.254	48.699	53.224	1.00 28.41	SOLV
HETATM	3047	OH2	WAT	61	10.426	26.647	60.447	1.00 32.72	SOLV
HETATM	3049		WAT	62	21.304				
						55.086	63.510	1.00 28.84	SOLV
HETATM	3049	OH2	WAT	63	32.532	51.211	45.469	1.00 32.48	SOLV
HETATM	3050	OH2	WAT	64	22.658	61.079	57.420		
								1.00 27.32	SOLV
HETATM	3051	OH2	TAW	65	16.734	24.334	74.721	1.00 27.44	SOLV
HETATM	3052	OH2	TAW	66	32.758	37.824	54.391	1.00 25.07	
									SOLV
HETATM	3053		WAT	67	11.142	25.859	49.706	1.00 29.66	SOLV
HETATM	3054	OH2	WAT	68	24.192	15.261	53.236	1.00 30.21	SOLV
HETATM									
			TAW	69	19.816	17.916	66.357	1.00 30.50	SOLV
HETATM	3056	OH2	WAT	70	50.347	23.975	53.197	1.00 28.08	SOLV
HETATM	3057	OB 2	WAT	71	50.258	30.918			
							51:113	1.00 20.19	SOLV
HETATM	3058	OH2	WAT	72	21.047	17.624	68.693	1.00 41.23	SOLV
HETATM	3059	OH2	WAT	73	26.782	33.756	49.995	1.00 25.80	
									SOLV
HETATM	3060	OHZ	TAVI	74	12.570	43.844	64.441	1.00 31.03	SOLV
HETATM	3061	OH2	TAV	75	35.555	41.287	50.852	1.00 24.03	SOLV
HETATM			WAT						
				76	27.764	18.231	61.827	1.00 18.28	SOLV
HETATM	3063	OH2	HAT	77	26.715	29.236	38.391	1.00 23.18	SOLV
HETATM	3064	043	WAT	78	21.461	23.245	48.872		
							48.872	1.00 23.80	SOLV
HETATM	3065	OH2	TAW!	79	49.246	28.263	65.477	1.00 21.52	SOLV
HETATM	3066	022	WAT	80	31.785	13.301	69.606		
								1.00 31.11	SOLV
HETATM	3067	OH2	TAW	81	49.811	34.740	59.229	1.00 31.76	SOLV
HETATM	3068	OH2	WAT	82	45.670	33.188	42.470	1.00 23.13	SOLV
HETATM									
			TAW	83	9.408	39.751	55.872	1.00 31.53	SOLV
HETATM	3070	OH2	WAT	84 .	35.166	35.878	29.899	1.00 37.32	SOLV
HETATM	3071		WAT	85	41.927	22.970	73.694		
								1.00 44.07	SOLV
HETATM	3072	OH2	WAT	86	22.125	34.577	49.199	1.00 44.65	SOLV
HETATM	3073	OH2	WAT	87	43.984	33.541	37.965	1.00 24.88	
									SOLV
HETATM			WAT	88	11.997	17.962	56.312	1.00 34.85	SOLV
HETATM	3075	OH2	WAT	89	42.194	14.737	59.766	1.00 25.91	SOLV
HETATM	3076		TAW	90					
					49.313	24.200	41.684	1.00 29.29	SOLV
HETATM	3077	OH2	WAT	91	48.504	33.595	61.519	1.00 30.32	SOLV
HETATM	3078	OHO	WAT	92	24.773	18.356	33.365	1.00 53.13	SOLV
HETATM			WAT	93	35.160	35.656	47.470	1.00 41.41	SOLV
HETATM	3080	OH2	WAT	94	44.682	36.658	39.962	1.00 29.24	SOLV
HETATM	3081		WAT	95	9.576	41.033	52.549		
	. –							1.00 51.83	·SOLV
HETATM	3082	OH2	'VAT	`6	47.199	20.112	42.102	1.00 40.39	SOLV
HETATM	3083	OH2	TAW	7ر ·	49.254	26 331	59 641	1.00 37.03	SOLV
HETATM			WAT	- 8	26.808	37.600	38.172	1.00 28.74	SOLV
HETATM	3085	OH2	WAT	99	40.749	14.572	64.635	1.00 33.42	SOLV
HETATM	3086		WAT	100	24.850	44.161	47.775	1.00 27.89	
									SQLV
HETATM	3087	OH2	VAT	101	34.326	42.063	46.714	1.00 42.22	SOLV
HETATM	3088	OH2	WATE	102	30.226	34.544	52.026	1.00 30.77	SOLV
HETATM		OH2	WAT	103	47.824	39.054	78.097	1.00 52.16	SOLV
HETATM	3090	OH2	WAT	104	19.665	18.953	47.438	1.00 51.70	SOLV
HETATM		ОН2							
				105	46.857	36.525	46.232	1.00 23.65	SOLV
HETATM	3092	0Н2	WAT	106	48.069	19.460	67.360	1.00 37.56	SOLV
HETATM		OH2		107	15.553	56.850	61.838		
								1.00 46.95	SOLV
HETATM	9440د	OH2	:JAT	108	44.026	19.119	70.671	1.00 39.55	SOLV
HETATM		OH2		109	8.139	42.064	65.674	1.00 42.61	SOLV
HETATM	3096	OH2	MAT	110	50.624	36.591	65.779	1.00 31.59	SOLV
HETATM	3097	OH2	HAT	111	51.398	26.073	61.043	1.00 49.09	SOLV
HETATM		OH2		112	26.174	33.692	33.551	1.00 36.61	SOLV
HETATM	3099	OH2	WAT	113	23.545	20.203	53.001	1.00 24.34	SOLV
HETATM		OH2		114	9.083	42.965			
							57.697	1.00 33.65	SOLV
HETATM	3101	OH2	WAT	115	8.442	39.898	64.594	1.00 31.21	SOLV
HETATM		OH2		116	15.219	35.897	51.951	1.00 26.59	SOLV
	- 202	2		T-T-0	**. **	07/	シェ・シジエ	1.00 40.39	30 1 .0

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HETATM 3103	CH2 WAT	117	15.417	38.438	50.473	1.00 34.46	SOLV
HETATM 3104	OH2 WAT	118	40.757	26.310	29.206	1.00 29.12	SOLV
HETATM 3105	OH2 WAT	119	27.717	18.542	46.553	1.00 28.17	SOLV
			18.612	13.786	56.845	1.00 38.56	SOLV
HETATM 3106	OH2 WAT	120					
HETATM 3107	OH2 WAT	121	43.198	31.377	72.139	1.00 26.31	SOLV
HETATM 3108	OH2 WAT	122	44.188	35.704	33.802	1.00 29.81	SOLV
HETATM 3109	OH2 WAT	123	50.736	40.909	58.456	1.00 32.40	SOLV
HETATM 3110	OH2 WAT	124	31.302	33.760	31.742	1.00 30.84	SOLV
					34.198	1.00 34.67	
HETATM 3111	OH2 WAT	125	36.895	21.264	34.130	1.00 34.67	SOLV
HETATM 3112	OH2 WAT	126	47.474	22.252	67.427	1.00 34.35	SOLV
HETATM 3113	OH2 WAT	127	. 7.178	25.936	64.063	1.00 31.77	SOLV
	OH2 WAT	128	36.362	66.647	54.021	1.00 36.88	SOLV
HETATM 3114	OHZ WAT						
HETATM 3115	OH2 WAT	129	42.486	35.503	30.348	1.00 26.61	SOLV
							SOLV
HETATM 3116	OH2 WAT	130	8.432	34.383	50.442	1.00 37.45	
HETATM 3117	OH2 WAT	131	37.644	49.018	48.946	1.00 37.33	SOLV
						•	
HETATM 3118	OH2 WAT	132	50.273	41.645	63.380	1.00 37.33	SOLV
	OH2 WAT	133	7.518	26.633	61.571	1.00 45.42	SOLV
HETATM 3119							
HETATM 3120	OH2 WAT	134	31.483	46.197	72.538	1.00 28:02	SOLV
			41.501	16.604	58.054	1.00 32.78	SOLV
HETATM 3121	OH2 WAT	135					
HETATM 3122	OH2 WAT	136	45.898	47.740	55.185	1.00 43.47	SOLV
				33.614			
HETATM 3123	OH2 WAT	137	16.300	33.014	49.519	1.00 30.37	SOLV
HETATM 3124	OH2 WAT	138	51.148	36.946	55.148	1.00 46.34	· SOLV
HETATM 3125	OH2 WAT	139	21.525	53.761	50.892	1.00 38.27	SOLV
	0110 14370	1.40	21.603	54.580	68.690	1.00 33.10	SOLV
HETATM 3126	OH2 WAT	140					
HETATM 3127	OH2 WAT	141	10.191	29.237	60.325	1.00 30.24	SOLV
HETATM 3128	OH2 WAT	142	16.951	18.120	66.901	1.00 40.85	SCLV
HETATM 3129	OH2 WAT	143	4.943	24.912	51.199	1.00 49.13	SOLV
HETATM 3130	OH2 WAT	144	10.711	25.291	58.177	1.00 30.72	SOLV
	OH2 WAT	145	30.815	43.398	36.040	1.00 42.23	SOLV
HETATM 3131	URZ WAI						
HETATM 3132	CH2 WAT	146	21.763	24.512	46.695	1.00 28.31	SOLV
			51.788	33.122	50.887	1.00 26.15	SOLV
HETATM 3133	OH2 WAT	147	51./60				
HETATM 3134	OH2 WAT	148	24.531	44.741	72,420	1.00 27.99	SOLV
					•		SOLV
HETATM 3135	OH2 WAT	149	50.938		60.422	1.00 38.20	
HETATM 3136	OH2 WAT	150	24.860	47.932	61.067	1.00 18.89	SOLV
	•						
HETATM 3137	OH2 WAT	151	27.336	37.304	35.642	1.00 33.58	SOLV
		152	38.680	35.535	35.974	1.00 26.89	SOLV
HETATM 3138	OH2 WAT						
HETATM 3139	OH2 WAT	153	24.441	16.097	33.317	1.00 48.33	SOLV
					73.416	1.00 36.28	SOLV
HETATM 3140	OH2 WAT	154	20.343	18.124			
HETATM 3141	OH2 WAT	155	49.765	37.948	74.801	1.00 48.41	SOLV
							SOLV
HETATM 3142	OH2 WAT	156	34.329	31.169	47.547	1.00 25.33	
HETATM 3143	OH2 WAT	157	43.028	24.554	72.536	1.00 41.54	SOLV
HETATM 3144	OH2 WAT	158	39.888	15.082	42.035	1.00 28.76	SOLV
HETATM 3145	OH2 WAT	159	41.886	20.780	73.179	1.00 51.03	SOLV
HETATM 3146	OH2 WAT	160	22.962	49.969	58.518	1.00 35.04	SOLV
	OH2 WAT	161	14.696	15.261	68.016	1.00 55.47	SOLV
HETATM 3147							
HETATM 3148	OH2 WAT	162	14.915	18.181	64.866	1.00 42.00	SOLV
			20 600		52.612	1.00 47.32	. SOLV
HETATM 3149	OH2 WAT	163	30.608				
HETATM 3150	OH2 WAT	164	52.566	30.906	57.612	1.00 36.71	SOLV
			23.699	27.331	77.729	1.00 32.22	SOLV
HETATM 3151	OH2 WAT	165					
HETATM 3152	OH2 WAT	166	36.971	59.046	63.272	1.00 43.05	SOLV
					52.876	1.00 33.66	SOLV
HETATM 3153	OH2 WAT	167	46.053	45.927			
HETATM 3154	OH2 WAT	168	42.780	49.151	58.106	1.00 44.63	SOLV
							SOLV
HETATM 3155	OH2 WAT	169	15.100	44.506	72.183	1.00 45.43	
HETATM 3156	OH2 WAT	170	31.677	60.998	50.050	1,00 34.51	SOLV
HETATM 3157	OH2 WAT	171	25.336	45.674	45.578	1.00 55.85	SOLV
			17.481	18.266	49.018	1.00 32.73	SOLV
HETATM 3158	OH2 WAT	172					
HETATM 3159	OH2 WAT	173	26.112	18.147	31.404	1.00 49.94	SOLV
				43.142	70.985	1.00 32.89	SOLV
HETATM 3160	OH2 WAT	174	45.874				
HETATM 3161	CH2 WAT	175	··. 34.517	17.884	33.278	1.00 42.20	SOLV
	*						SOLV
HETATM 3162	OH2 WAT	176	16.330	54.886	50.466	1.00 40.74	
	OH2 WAT	177	31.400	51.087	74.689	1.00 38.56	SOLV
HETATM 3163							
HETATM 3164	OH2 WAT	178	50.971	27.079	67.130	1.00 44.49	SOLV
	OH2 WAT	179	7.933	23.412	54.691	1.00 42.84	SOLV
HETATM 3165							
HETATM 3166	OH2 WAT	180	33.498	47.596	73.612	1.00 35.99	SOLV
	OH2 WAT		26.016	19.583	44.954	1.00 51.31	SOLV
HETATM 3167		181					
HETATM 3168	OH2 WAT	182	40.139	17.026	74.920	1.00 43.64	SOLV
				_	•		_

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67/263 Figure 16-49

HETATM 316	9 OH2 WA	T 183	10.441	42.659	62.744	1.00 34.51	SOLV
HETATM 317	O OH2 WA	T 184	2.095	34.482	65.810	1.00 36.49	SOLV
HETATM 317	1 OH2 WA	T 185	45.749	18.286	51.615	1.00 28.19	SOLV
HETATM 317	2 OH2 WA	T 186	25.771	38.332	76.707	1.00 45.53	SOLV
HETATM 317	3 OH2 WA	T 187	7.228	40.382	57.542	1.00 48.91	SOLV
HETATM 317	4 OH2 WA	T 188	42.972	52.824	67.739	1.00 39.99	SOLV
HETATM 317	5 OH2 WA		20.137	13.189	73.277	1.00 44.91	SOLV
HETATM 317	6 OH2 WA	T 190	48.945	19.193	47.581	1.00 52.88	SOLV
HETATM 317			14.549	34.547	47.665	1.00 49.15	SOLV
HETATM 317	8 CH2 WA	T 192	31.765	20.567	26.536	1.00 42.23	SOLV
HETATM 317	9 OH2 WA	T 193	9.784	39.303	74.222	1.00 32.10	SOLV
HETATM 318			28.865	12.481	52.375	1.00 50.98	SOLV
HETATM 318	31 OH2 WA	T 195	- 24.030	12.804	70.409-	1.00 52.43	SOLV
HETATM 318	2 OH2 WA	T 196	47.209	39.536	50.698	1.00 43.03	SOLV
HETATM 318	33 OH2 WA	T 197	35.618	18.114	27.306	1.00 41.11	SOLV
HETATM 318	34 OH2 WA	T 198	23.625	48.145	43.853	1.00 48.20	SOLV
HETATM 318	5 OH2 WA	T 199	37.090	59.044	54.185	1.00 34.99	SOLV
HETATM 318	6 OH2 WA	T 200	34.478	12.208	59.080	1.00 36.58	SOLV
HETATM 318	7 OH2 WA	T 201	22.142	29.583	76.228	1.00 33.95	SOLV
HETATM 318	88 OH2 WA	T 202	13.608	42.619	53.973	1.00 40.44	SOLV
HETATM 318	9 OH2 WA	T 203	42.647	18.701	72.526	1.00 55.64	SOLV
HETATM 319	O OH2 WA	T 204	37.005	35.993	77.480	1.00 34.82	SOLV
HETATM 319			34.154	20.512	33.327	1.00 31.00	SOLV
HETATM 319	2 OH2 WA	T 206	37.264	57.546	47.642	1.00 49.58	SOLV
HETATM 319		T 207	17.924	35.195	79.003	1.00 38.45	SOLV
HETATM 319			51.172	31.581	62.378	1.00 35.37	SOLV
HETATM 319			50.503	36.726	79.224	1.00 39.95	SOLV
HETATM 319			18.382	13.162	63.852	1.00 52.08	SOLV
HETATM 319			27.245	8.351	5 5.1 99	1.00 39.12	SOLV
HETATM 319		-	18.354	13.545	59.540	1.00 30.15	SOLV
HETATM 319			49.088	51.744	63.388	1.00 36.69	SOLV
HETATM 320			23.251	33.160	50.871	1.00 42.11	SOLV
HETATM 320			12.989	35.073	50.651	1.00 38.63	SOLV
HETATM 320			24.414	44.460	43.239	1.00 37.93	SOLV
HETATM 320			24.690	47.590	73.117	1.00 34.17	SOLV
HETATM 320			19.844	17.949	81.360		SOLV
HETATM 320			40.169	27.215	74.247	1.00 37.83	SOLV
HETATM 320			38.737	39.516	73.171	1.00 49.20	SOLV
HETATM 320			50.628	21.408	46.879	1.00 45.57	SOLV
HETATM 320			35.436	43.288	75.660	1.00 37.33	SOLV
HETATM 320			34.390	16.963	55.285	1.00 35.10	SOLY
HETATM 321			21.900	35.454	34.475	1.00 46.29	SOLV
HETATM 321			15.751	40.989	46.787	1.00 62.75	SOLV
HETATM 321		-	23.844	48.662	66.295	1.00 38.35	SOLV
HETATM 321			47.225	20.562	55.117	1.00 49.99	SOLV
HETATM 321	.4 OH2 WA	T 228	23.426	19.272	50.565	1.00 30.07	SOLV

					Residue	# X	Y	Z	occ.	В	Segment	ID
ATOM	1	CB	ALA		2	43.739	36.862	75.052	1.00	64.01	6	
MOTA	2	С	AĻA		2	44.405	38.106	72.971		60.02	6	
ATOM	3	0	ALA		2	43.251	38.536	72.908		57.94	8	
ATOM	4	N	ALA		2	46.142	37.179	74.497 73.923		62.88	7 6	
ATOM	5	CA	ALA LYS		2	44.776 45.398	36.966 38.588	72.233		63.02 55.40	7	
MOTA MOTA	6 7	N CA	LYS		3	45.196	39.671	71.287		53.40	6	
ATOM	8	CB	LYS		3	46.443	39.830	70.421		53.11	6	
ATOM	9	CG	LYS			47.703	40.093	71.217		57.36	6	
MOTA	10	CD	LYS		3	48.941	39.976	70.349	1.00	60.94	6	
ATOM	11	CE	LYS	Α	3	48.909	40.957	69.196		63.48	6	
ATOM	12	NZ	LYS		3	50.075	40.765	68.294		66.87	7	
MOTA	13	C	LYS		3	43.986	39.401	70.399		50.49	6	
MOTA	14	0	LYS		3	43.691 43.281	38.255 40.464	70.063 70.034		52.50 45.96	8 7	
ATOM	15 16	N CA	VAL VAL		4 4	42.122	40.464	69.167		41.16	6	
MOTA MOTA	17	CB	VAL		4	40.983	41.272	69.638		41.53	6	
MOTA	18		VAL		4	39.734	41.028	68.797		40.07	6	
MOTA	19		VAL			40.705	41.033	71.115	1.00	38.31	6	
ATOM	20	С	VAL	À	4	42.519	40.796	67.796		39.96	6	
MOTA	21	0	VAL		4	43.123	41.914	67.645		39.15	8	
MOTA	22	N	LYS		5	42.486	39.916	66.807		36.24	7	
MOTA	23	CA	LYS		5	42.956	40.186	65.449		35.66	6	
ATOM	24 25	CB	LYS LYS		5 5	43.930 45.197	39.088 38.978	65.024 65.860		37.33 38.24	6 ·	
ATOM ATOM	26	CD	LYS		5	46.113	40.179	65.659		35.41	6	
ATOM	27	CE	LYS		5	47.436	39.957	66.369		37.46	6	
ATOM	28	NZ	LYS		5	48.345	41.121	66.245		35.63	7	
ATOM	29	C	LYS		5	41.840	40.254	64.415		34.40		
ATOM	30	0	LYS	A	5	40.788	39.641	64.588		33.92		
ATOM	31	N	LEU		6	42.082	40.983	63.329		32.52		
ATOM	32	CA	LEU		6	41.097	41.094	62.253 62.114		33.64 31.83	6 6	
ATOM	33 34	CB CG	LEU		6 6	40.589 39.346	42.532 42.823	61.248		32.93		
ATOM ATOM	35		LEU		6	39.356	44.295	60.899		28.95		
ATOM	36		LEU		6	39.336	42.031	59.964		32.87		
ATOM	37	С	LEU		6	41.802	40.721	60.955		35.09		
MOTA	38	0	LEU	Α	6	42.631	41.491	60.468		36.93		
MOTA	39	N	ILE		7	41.494	39.561	60.382		35.52		
ATOM	40	CA	ILE		7	42.145	39.199	59.129 58.850		35.14 33.68		
ATOM	41 42	CB	ILE		7 7	42.062 42.731	37.711 37.409	57.517		32.87		
ATOM ATOM	43		ILE		7	42.746	36.941	59.975		33.32		
ATOM	44		ILE		7	42.744	35.451	59.755		35.09		
ATOM	45	C	ILE		7	41.487	39.935	57.971	1.00	37.13	6	
ATOM	46	0	ILE		7	40.258	39.933	57.855		35.21		
ATOM	47	N	GLY		8	42.304	40.563	57.124		37.25		
ATOM 1	48	CA	GLY		8	41.771	41.305	55.994 55.079		38.69 39.73		
MOTA	49 50	C 0	GLY GLY		8 8	42.809 44.015	41.939	55.321		39.21	8	
MOTA MOTA	51	N	THR		9	42.335	42.622	54.033		39.41		
ATOM	52	CA	THR		9	43.212	43.268	53.057		38.69		
MOTA	53	CB	THR		9	44.132	42.210	52.390		37.27	6	
ATOM	54	0G1	THR	A	9	44.754	42.771	51.230		36.82		
ATOM	55	CG2			9	43.332	40.972	52.001		38.59		
ATOM	56	C	THR		9	42.447	44.045	51.970		38.60 37.30		
ATOM	57	C .	THR		9	41.434	43.569 45.238	51.452 51.628		38.14		
ATOM	58 53	N C2	LEU		10 10	42.939 42.304	45.238	50.609		39.39		
ATOM	59 60	CA CB	LEU		10	43.026	47.418	50.456		38.98		
atom atom	61	CG	LEU		10	42.836	48.506	51.510		39.68	3 6	
ATOM	62		LEU		10	41.343	48.830	51.594	1.00	40.22	2 6	
ATOM	63		LEU		10	43.382	48.057	52.857		40.11		
ATOM	54	С	LEU	A	10	42.238	45.432	49.239		41.66		
'ATOM	65	0	LEU		10	41.462	45.863	48.381		42.08		
ATOM	66	N	ASP	A	11	43.052	44.408	49.025	1.00	43.51	. /	

5.00M	67	CA ASP	-	11	43.071	43.731	47.737	1.00 47.27	6
ATOM					44.250	42.765	47.694	1.00 51.03	6
ATOM	68	CB ASP		11					
ATOM	69	CG ASP		11	45.579	43.479	47.858	1.00 54.10	6
ATOM	70	OD1 ASP	A	11	45.944	44.282	46.975	1.00 55.93	8
	71	OD2 ASP		11	46.255	43.251	48.879	1.00 57.79	8
ATOM							47.423	1.00 46.36	5
ATOM	72	C ASP		11	41.756	43.016			
ATOM	73	O ASP	` A	11	41.472	42.702	46.266	1.00 43.49	8
ATOM	74	N TYR		12	40.954	42.767	48.456	1.00 46.80	7
					39.654	42.116	48.284	1.00 45.92	6
MOTA	75	CA TYR		12			49.638	1.00 41.38	6
ATOM	76	CB TYR	. A.	12	38.953	41.942			
ATOM	77	CG TYR	. A	12	39.358	40.697	50.390	1.00 38.82	6
ATOM	78	CD1 TYR		12	39.531	40.720	51.775	1.00 37.95	6
	79	CE1 TYR		12	39.869	39.560	52.476	1.00 36.18	6
MOTA							49.721	1.00 37.69	6
ATOM	80	CD2 TYR		12	39.533	39.479			
ATOM	81	CE2 TYR	A	12	39.868	38.316	50.415	1.00 35.83	6
ATOM	82	CZ TYR	: 3	12	40.032	38.365	51.78 7 -	1.00 34.10	6
	83	OH TYR		12	40.339	37.216	52.470	1.00 36.31	8
ATOM					38.786	42.966	47.378	1.00 46.56	6
MOTA	84	C TYR		12					8
ATOM	85	O TYR		12	37.821	42.476	46.791	1.00 47.38	
ATOM	86	N GLY	À	13	39.138	44.247	47.278	1.00 47.28	7
ATOM	87	CA GLY		13	38.385	45.164	46.442	1.00 46.53	6
				13	38.650	44.934	44.968	1.00 45.60	6
ATOM	88	C GLY					44.117	1.00 43.68	8
MOTA	89	O GLY		13	37.895	45.401			
MOTA	90	N LYS	: A	14	39.725	44.210	44.672	1.00 46.52	7
ATOM	91	CA LYS	i A	14	40.112	43.908	43.296	1.00 47.28	6
	92	CB LYS		14	41.629	43.748	43.201	1.00 50.22	6
ATOM					42.396	45.044	43.307	1.00 57.12	6
ATOM	93	CG LYS		14			42.161	1.00 63.60	6
MOTA	94	CD LYS	. A	14	42.038	46.004			
MOTA	95	CE LYS	: A	14	42.349	45.422	40.768	1.00 66.65	6
ATOM -	96	NZ LYS		14	41.529	44.220	40.387	1.00 67.70	7
	97	C LYS		14	39.460	42.643	42.769	1.00 44.18	6
ATOM						42.325	41.585	1.00 40.33	8
MOTA	98	O LYS		14	39.564				7
ATOM	99	N TYP	R S	15	38.790	41.926	43.661	1.00 43.25	
MOTA	100	CA TYP	A 5	15	38.145	40.665	43.317	1.00 43.18	6
	101	CB TYP		15	38.789	39.547	44.142	1.00 36.88	6
ATOM					40.302	39.560	44.053	1.00 32.96	6
ATOM	102	CG TYF		15			45.108	1.00 30.90	6
MOTA	103	CD1 TYF		15	41.084	39.107			
ATOM	104	CE1 TYP	R A	15	42.476	39.144	45.035	1.00 30.94	6
MOTA	105	CD2 TYP	£ 5	15	40.952	40.049	42.912	1.00 33.01	6
	106	CE2 TYP		15	42.341	40.092	42.826	1.00 29.68	6
ATOM					43.098	39.639	43.890	1.00 30.99	6
ATOM	107	CZ TYF		15			43.809	1.00 28.02	8
ATOM	108	OH TYP	₹ A	15	44.471	39.673			
MOTA	109	C TY	R 5	15	36.661	40.778	43.621	1.00 45.56	6
ATOM	110	O TYP	2 3	15	36.149	40.153	44.552	1.00 45.22	8
	111		3 A	16	35.981	41.599	42.830	1.00 48.81	7
ATOM					34.553	41.819	42.999	1.70 53.22	6
ATOM	112	CA ARC		16	34.333		42.654	1)0 57.11	6
ATOM	113	CB ARC	3 3	16	34.193	43.203			
ATOM	114	CG ARG	3 A	16	34.852	44.330	43.490	1 יו 61.66	6
ATOM	115	CD ARC	3 A	16	34.280	44.408	44.886	1.00 67.04	6
	116		3 A	16	34.798	45.590	45.569	1.00 73.59	7
ATOM					34.612	46.837	45.141		6
ATOM	117		3 A	16				1.00 73.03	7
ATOM	118	NH1 ARC	3 A	16	33.917	47.065	44.033		<u>'</u>
ATOM	119	NH2 ARC	S A	16	35.142	47.856	45.808	1.00 75.79	7
ATOM	120		3 A	1.6	33.757	40.903	42.080	1.00 51.79	6
					34.192	40.593	40.970	1.00 50.89	8
MOTA	121		G A	16			42.552	1.00 50.19	
MOTA	122	N TY	R A	17	32.596	40.463			
ATOM	123	CA TY	R A	17	31.737		41.733	1.00 49.60	6
ATOM	124		R A	17	30.534	39.119	42.528	1.00 45.80	6
				17	30.803	37.894	43.365	1.00 42.01	6
ATOM	125		RA				44.438	1.00 42.45	6
ATOM	126		R A	17	31.589				6
ATOM	127	CE1 TY	A R	17	31.950		45.193	1.00 43.36	
ATOM	128		R A	17	30.185	36.680	43.062	1.00 39.89	6
	129		R A	17	30.443		43.803	1.00 40.56	6
ATCM					31.333		44.869		6
atom	130		A A	17			45.598		8
ATOM	131		R A	17	31.600				6
ATOM	132	C TY	RA	17	31.245	40.547	40.622	1.00 51.88	O

								8
3 mOM	133 0	TYR A	17	31.332	41.772		1.00 47.86	
MOTA		PRO A	18	30.730	39.964	39.534	1.00 54.38	7
ATOM	134 N			30.548	38.545	39.190	1.00 54.21	6
ATOM	135 CD	PRO A	18	-	40.809	38.449	1.00 56.43	6
ATOM	136 CA	PRO A	18	30.243		37.496	1.00 56.84	6
ATOM	137 CB	PRO A	18	29.601	39.792		1.00 56.46	6
ATOM -	138 CG	PRO A	18	29.260	38.613	38.426	1.00 50.40	
	139 C	PRO A	18	29.273	41.891	38.932	1.00 58.74	6
ATOM		PRO A	18	28.791	41.861	40.066	1.00 55.72	8
MOTA			19	29.017	42.851	38.052	1.00 62.10	7
AŢOM	141 N	LYS A		28.127	43.973	38.314	1.00 64.85	6
MOTA	142 CA	LYS A	19		44.761	37.022	1.00 69.74	6
ATOM	143 CB	LYS A	19	27.972		35.740	1.00 74.99	6
MOTA	144 CG	LYS A	19	28.008	43.925			6
MOTA	145 CD	LYS A	19 .	26.895	42.881	35.668-		6
	146 CE		19	26.981	42.010	34.420	1.00 80.24	
ATOM	147 NZ	LYS A	19	25.867	41.010	34.361	1.00 81.13	7
ATOM		LYS A	19	26.750	43.619	38.869	1.00 64.77	6 -
ATOM	_	LYS A	19	26.414	43.961	40.001	1.00 66.50	8
MOTA	149 0		20	25.957	42.933	38.062	1.00 63.75	7
ATOM	150 N	ASN A		24.612	42.556	38.439	1.00 62.96	6
ATOM	151 CA		20		42.031	37.208	1.00 67.42	6
ATOM	152 CB		20	23.870		37.459	1.00 72.29	6
MOTA	153 CG	ASN A	20	22.392	41.833		1.00 75.25	8
ATOM	154 OD	1 ASN A	20	21.666	42.785	37.772		7
		2 ASN A	20	21.931	40.594	37.322		
ATOM	156 C	ASN A	20	24.602	41.512	39.547	1.00 61.30	6
MOTA		ASN A	20	23.629	40.773	39.698	1.00 61.49	8
MOTA	157 0	HIS A	21	25.681	41.444	40.321	1.00 57.30	7
ATOM	158 N		21	25.755	40.480	41.418	1.00 54.68	6
MOTA	159 CA			27.071	39.700	41.373	1.00 52.53	6
ATOM	160 CE		21	27.058	38.449	42.195	1.00 49.39	6
MOTA	161 CC		.21		38.236	43.503	1.00 49.39	6
MOTA		D2 HIS A	21	27.336		41.686	1.00 48.27	7
ATOM	163 NI	on HIS A	21	26.664	37.229	41.000	1.00 48.16	6
MOTA	164 CF	E1 HIS A	21	26.704	36.320	42.643	1.00 47.33	7
ATOM		E2 HIS A	21	27.108	36.905.			6
	166 C	HIS A	21	25.664	41.215	42.760	1.00 52.89	
MOTA	167 0	HIS A	21	26.295	42.256	42.947	1.00 52.52	8
ATOM			22	24.880	40.679	43.713	1.00 50.81	7
MOTA		_	22	24.076		43.661	1.00 48.50	6
ATOM	169 C		22	24.734		45.029	1.00 48.02	6
MOTA	170 C			23.860		45.783	1.00 47.45	6
ATOM	171 C		.22	22.990		44.667	1.00 47.76	6
ATOM	172 C		22	26.074			1.00 46.48	6
MOTA	173 C	PRO A	22				1.00 45.69	8
ATOM	174 C	PRO A	22	26.164			1.00 44.97	7
ATOM	175 N	LEU A	23	27.107		_	1.00 41.31	6
ATOM	176 C	A LEU A	23	28.441			1.00 39.22	6
ATOM	177 C	_	23	29.076	39.569		1.00 37.71	6
ATOM		G LEU A		28.264	38.561			6
		Di LEU A		29.075	37.288			
ATOM		D1 LEU A		27.89€	39.165			6
ATOM				29.334	41.789			6
ATOM	181 C			30.550			1.00 39.00	8
ATOM	182 0			28.70			1.00 39.67	7
ATOM	183 N			29.430			.1.00 42.88	6
ATOM		A LYS A		28.48			1.00 40.24	6
ATOM		B LYS A						6
ATOM	186	G LYS A		28.94		_		6
ATOM		D LYS A	24	28.24		·		6
ATOM		E LYS A		26.73				7
	-	NZ LYS ?		25.98				6
ATOM	190			30.03	1 44.72			0
ATOM		LYS		31.02		2 43.817		8
ATOM				29.43		6 45.378		
ATOM		N ILE A		29.87			1.00 39.86	6
atom		CA ILE A		28.76			5 1.00 37.72	
atom		CB ILE A		27.53			1.00 39.67	
atom		CG2 ILE A		28.41				6
ATOM		CG1 ILE A						
ATOM	197	CD1 ILE 2		27.30		-		
ATCM	198	C ILE	A 25	31.07	8 45.62	. 47 ، 44 س		•

ATOM 199 O LE A 25 31.419 44.441 47.198 1.00 38.90 8 ATOM 201 CD PRO A 26 31.762 46.616 47.533 1.00 40.18 7 ATOM 20 CA PRO A 26 31.522 48.61 47.533 1.00 40.58 6 ATOM 20 CB PRO A 26 31.478 47.860 48.688 1.00 37.14 6 ATOM 20 CO PRO A 26 31.434 46.937 50.412 1.00 37.32 6 ATOM 20 C ARG A 27 31.134 44.930 50.452 1.00 37.39 6 ATOM 20 C ARG A 27 32.116 42.955 50.555 1.00 32.739 6 ATOM 21 CO ARG A </th <th></th> <th>_</th>											_
ATOM 200 N PRO A 266 31.762 46.616 47.709 1.00 40.58 7 ATOM 201 CD PRO A 26 31.523 48.051 47.533 1.00 40.58 6 ATOM 202 CA PRO A 26 31.523 48.051 47.533 1.00 40.58 6 ATOM 203 CB PRO A 26 32.939 46.437 48.558 1.00 37.14 6 ATOM 204 CG PRO A 26 32.940 48.557 47.458 1.00 37.12 6 ATOM 205 C PRO A 26 32.433 45.903 49.891 1.00 37.32 6 ATOM 206 O PRO A 26 31.434 45.905 50.412 1.00 37.32 6 ATOM 207 N ARG A 27 31.134 44.930 50.452 1.00 36.54 7 ATOM 207 N ARG A 27 31.134 44.930 50.452 1.00 36.54 7 ATOM 208 CA ARG A 27 31.134 44.930 50.452 1.00 36.54 7 ATOM 209 CB ARG A 27 31.1047 42.956 50.452 1.00 35.29 6 ATOM 210 CG ARG A 27 31.1047 42.956 50.155 1.00 35.29 6 ATOM 210 CG ARG A 27 31.047 42.956 50.355 1.00 35.29 6 ATOM 211 CD ARG A 27 30.507 41.573 49.556 1.00 33.87 6 ATOM 212 NE ARG A 27 30.507 41.573 49.556 1.00 33.87 6 ATOM 212 NE ARG A 27 30.507 40.909 51.021 1.00 36.16 7 ATOM 213 CZ ARG A 27 31.604 39.903 51.926 1.00 37.11 6 ATOM 214 NH1 ARG A 27 31.604 39.903 51.976 1.00 37.11 6 ATOM 215 NH2 ARG A 27 33.881 44.329 52.732 1.00 37.11 6 ATOM 216 C ARG A 27 33.881 44.329 52.732 1.00 36.16 7 ATOM 216 C ARG A 27 33.881 44.329 52.732 1.00 36.16 7 ATOM 216 C ARG A 27 33.881 44.329 52.732 1.00 36.16 7 ATOM 216 C ARG A 27 33.881 44.329 52.732 1.00 36.16 7 ATOM 219 CA VALA 28 34.703 43.351 52.607 1.00 34.40 7 ATOM 219 CA VALA 28 36.613 41.954 53.252 1.00 36.25 6 ATOM 220 CB VALA 28 36.613 41.954 53.252 1.00 36.21 6 ATOM 221 CG1 VALA 28 36.613 41.954 53.252 1.00 36.21 6 ATOM 222 CG2 VALA 28 36.613 41.954 53.252 1.00 36.21 6 ATOM 222 CG2 VALA 28 37.574 41.652 54.424 1.00 31.97 7 ATOM 225 C VALA 28 37.574 41.652 54.424 1.00 31.97 6 ATOM 222 CG2 VALA 28 36.612 44.954 53.252 1.00 31.45 8 ATOM 222 CG2 VALA 28 37.574 46.611 51.967 1.00 31.75 6 ATOM 222 CG VALA 28 37.574 46.611 51.967 1.00 31.75 6 ATOM 223 C VALA 28 37.574 46.611 51.967 1.00 31.75 6 ATOM 224 CG VALA 28 37.574 46.646 57.94 50.00 31.75 6 ATOM 224 CG VALA 28 37.574 46.646 57.95 50.49 1.00 31.75 6 ATOM 224 CG VALA 28 37.574 46.646 57.95 50.49 1.00 31.75 6 ATOM 224 CG VALA	ATOM .	199	0	ILE A	• 1	25	31.419	44.441	47.198		
AROM 201 CD PRO 2 26 31 523 48.051 47.533 1.00 40.58 6 AROM 202 CA PRO A 26 32.939 46.437 48.558 1.00 38.31 6 AROM 202 CB PRO A 26 32.939 46.437 48.558 1.00 38.31 6 AROM 203 CB PRO A 26 32.940 48.557 47.458 1.00 38.714 6 AROM 205 C PRO A 26 32.940 48.574 74.588 1.00 38.714 6 AROM 205 C PRO A 26 32.940 48.577 47.458 1.00 38.73 6 AROM 206 PRO A 26 32.940 48.577 47.458 1.00 32.70 8 AROM 207 N ARO 207 N ARO 207 N ARO 207 N AROM 207 N AROM 207 N AROM 208 C AROM 209 CB AROA 27 31.044 49.90 50.452 1.00 32.70 8 AROM 209 CB AROA 27 31.044 72.956 50.355 1.00 37.39 6 AROM 209 CB AROA 27 31.047 42.956 50.355 1.00 37.39 6 AROM 209 CB AROA 27 31.047 42.956 50.355 1.00 32.69 6 AROM 210 CG AROA 27 31.047 42.956 50.355 1.00 32.69 6 AROM 211 CD AROA 27 31.047 42.956 50.355 1.00 32.69 6 AROM 212 NE AROA 27 31.047 42.956 50.355 1.00 32.69 6 AROM 212 NE AROA 27 31.047 42.956 50.355 1.00 32.69 6 AROM 212 NE AROA 27 30.507 41.573 49.956 1.00 32.69 6 AROM 212 NE AROA 27 30.507 41.573 49.956 1.00 32.67 6 AROM 212 NE AROA 27 30.507 41.573 49.956 1.00 36.16 6 AROM 214 NH1 AROA 27 30.507 41.573 49.956 1.00 36.16 6 AROM 214 NH1 AROA 27 33.881 45.188 53.610 1.00 36.16 7 AROM 214 NH1 AROA 27 33.881 45.188 53.610 1.00 36.16 7 AROM 214 NH1 AROA 27 33.881 45.188 53.610 1.00 36.35 7 AROM 219 C AVAL A 28 34.703 43.351 52.2702 1.00 36.35 6 AROM 219 C AVAL A 28 34.703 43.351 52.2702 1.00 36.35 6 AROM 219 C AVAL A 28 34.703 43.351 52.2702 1.00 36.35 6 AROM 219 C AVAL A 28 36.613 41.954 53.252 1.00 36.35 6 AROM 219 C AVAL A 28 36.613 41.954 53.252 1.00 36.35 6 AROM 219 C AVAL A 28 36.613 41.954 53.252 1.00 36.35 6 AROM 220 CB VAL A 28 36.613 41.954 53.252 1.00 37.05 6 AROM 220 CB VAL A 28 36.613 41.954 53.252 1.00 37.05 6 AROM 220 CB VAL A 28 36.613 41.954 53.252 1.00 37.05 6 AROM 220 CB VAL A 28 36.613 41.954 53.252 1.00 37.05 6 AROM 220 CB VAL A 28 36.613 41.954 53.252 1.00 37.05 6 AROM 220 CB VAL A 28 37.576 44.959 54.424 1.00 33.12 7 AROM 220 CB VAL A 28 37.576 44.959 54.424 1.00 36.35 6 AROM 220 CB VAL A 28 37.576 44.959 64.427 1.00 37.05 6 AROM		200	N	280 3	A 1	26	31.762	46.616	47.709	1.00 40.18	7
ATOM 202 CX PRO A 26 32,939 46,437 48,558 1.00 38.31 6 ATOM 203 CB PRO A 26 32,433 47,860 48,688 1.00 37.14 6 ATOM 204 CG PRO A 26 32,433 47,860 48,688 1.00 37.14 6 ATOM 205 C PRO A 26 32,433 45,903 49,891 1.00 37.32 6 ATOM 206 O PRO A 26 31,416 46,372 50,412 1.00 32,70 8 ATOM 207 N ARG A 27 33,134 44,359 51,711 1.00 37,39 6 ATOM 209 CB ARG A 27 32,186 42,952 51,555 1.00 32,69 6 ATOM 209 CB ARG A 27 32,186 42,952 51,555 1.00 32,69 6 ATOM 209 CB ARG A 27 32,186 42,952 51,555 1.00 32,69 6 ATOM 211 CD ARG A 27 30,507 41,573 49,956 1.00 33,676 7 ATOM 212 NE ARG A 27 30,507 41,573 49,956 1.00 33,676 7 ATOM 213 CZ ARG A 27 30,507 41,573 49,956 1.00 33,676 7 ATOM 213 CZ ARG A 27 30,507 41,573 49,956 1.00 33,676 7 ATOM 213 CZ ARG A 27 30,507 41,573 49,956 1.00 33,676 7 ATOM 213 CZ ARG A 27 30,593 40,112 51,559 1.00 37,116 6 ATOM 215 NN12 ARG A 27 30,593 40,112 51,559 1.00 37,116 6 ATOM 215 NN12 ARG A 27 33,813 44,329 52,732 1.00 36,136 7 ATOM 215 NN12 ARG A 27 33,813 44,329 52,732 1.00 36,136 7 ATOM 216 C ARG A 27 33,813 44,329 52,732 1.00 36,356 7 ATOM 217 O ARG A 27 33,813 45,188 53,610 1.00 33,677 7 ATOM 219 CA VAL A 28 34,703 43,351 52,607 1.00 36,367 7 ATOM 219 CA VAL A 28 35,810 43,230 53,537 1.00 34,93 7 ATOM 219 CA VAL A 28 35,810 43,230 53,537 1.00 34,93 7 ATOM 212 CCI VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 222 CCZ VAL A 28 36,633 41,954 53,252 1.00 37,05 6 ATOM 222 CCZ VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 222 CCZ VAL A 28 36,603 44,959 52,922 1.00 37,05 6 ATOM 223 C VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 223 C C VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 223 C C VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 223 C C VAL A 28 37,574 41,652 54,424 1.00 33,59 6 ATOM 223 C C S ER A 29 37,051 44,959 54,427 1.00 36,126 6 ATOM 223 C C VAL A 28 37,574 41,652 54,424 1.00 31,15 8 ATOM 223 C C EVAL A 28 37,574 41,652 54,424 1.00 37,76 6 ATOM 223 C C EVAL A 30 33,436 44,959 55,150 1.00 37,76 6 ATOM 223 C C EVAL A 30 33,436 44,959 55,150 1.00 37,76 6 ATOM 225 C C SER A 29 37,051 44,959 5								48 051	47 533	1.00.40.58	6
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ATOM 226 CA SER A 29 37.751 46.111 51.967 1.00 32.03 6 ATOM 227 CB SER A 29 38.205 46.181 50.499 1.00 31.77 6 ATOM 228 OG SER A 29 37.113 46.223 49.600 1.00 30.60 8 ATOM 229 C SER A 29 37.003 47.380 52.353 1.00 30.16 6 ATOM 230 O SER A 29 37.604 48.404 52.353 1.00 30.16 6 ATOM 231 N LEU A 30 35.682 47.310 52.352 1.00 32.43 7 ATOM 231 N LEU A 30 33.463 48.358 52.221 1.00 34.56 6 ATOM 233 CB LEU A 30 33.463 48.358 52.221 1.00 36.44 6 ATOM 233 CB LEU A 30 33.463 48.358 52.221 1.00 36.79 6 ATOM 235 CD1 LEU A 30 33.2070 49.446 54.012 1.00 36.79 6 ATOM 235 CD1 LEU A 30 33.2070 49.446 54.012 1.00 36.77 6 ATOM 236 CD2 LEU A 30 33.2070 49.446 54.012 1.00 36.77 6 ATOM 237 C LEU A 30 33.207 49.546 54.012 1.00 36.78 6 ATOM 238 O LEU A 30 33.207 48.57 54.262 1.00 34.89 6 ATOM 239 N LEU A 31 34.761 47.366 54.897 1.00 34.89 6 ATOM 240 CA LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 240 CA LEU A 31 34.761 47.366 54.897 1.00 36.07 6 ATOM 240 CA LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 243 CD1 LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 243 CD1 LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 240 CA LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 240 CA LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 240 CD LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 240 CD LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 240 CD LEU A 31 35.855 49.035 57.544 1.00 35.86 6 ATOM 240 CD LEU A 32 37.157 47.426 56.635 1.00 35.13 6 ATOM 240 CD LEU A 32 37.157 47.426 56.635 1.00 35.13 6 ATOM 240 CD LEU A 32 38.800 49.513 56.788 1.00 35.16 6 ATOM 240 CD LEU A 32 38.800 49.513 56.788 1.00 35.16 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 36.43 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 35.16 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 35.16 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 35.16 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 35.16 6 ATOM 255 CD ARG A 33 38.8184 49.877 55.545 1.00 31.37 7 ATOM 256 CD ARG A 33 38.8184 49.877 55.545 1.00 31.37 7 ATOM 256 CD ARG A 33 38.8184 49.877 55.545 1.00 31.37 7 ATOM 256								44 936	52.199	1.00 33.12	7
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ATOM 233 CB LEU A 30	MOTA	232	CA	LEU	A	30	34.900	48:465	52.745	1.00 34.55	
ATOM 234 CG LEU A 30 32.508 49.513 52.560 1.00 36.79 6 ATOM 235 CD1 LEU A 30 32.070 49.446 54.012 1.00 36.73 6 ATOM 236 CD2 LEU A 30 34.902 48.527 54.262 1.00 34.89 6 ATOM 237 C LEU A 30 34.902 48.527 54.262 1.00 34.89 6 ATOM 238 O LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 240 CA LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 242 CG LEU A 31 34.768 45.808 56.791 1.00 36.04 6 ATOM 243 CD1 LEU A 31 34.459 45.471 58.261 1.00 35.13 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.976 47.994 56.894 1.00 35.86 6 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.37 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 36.37 6 ATOM 251 CD1 LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 252 CD2 LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 253 C LEU A 32 39.611 47.318 56.418 1.00 37.73 6 ATOM 254 O LEU A 32 38.450 49.513 56.780 1.00 37.73 6 ATOM 255 CD LEU A 32 38.500 49.513 56.780 1.00 37.73 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 255 CD ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.348 52.652 53.042 1.00 35.88 6 ATOM 258 CG ARG A 33 38.348 52.652 53.042 1.00 35.88 6 ATOM 258 CG ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 258 CG ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 258 CG ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 258 CG ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 258 CG ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 268 CHURA ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 268 CHURA ARG A 33 38.348 51.469 49.97 1.00 52.27 6 ATOM 268 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.08 7							33.463	48.358	52.221	1.00 36.44	6
ATOM 235 CD1 LEU A 30 32.070 49.446 54.012 1.00 36.73 6 ATOM 236 CD2 LEU A 30 33.202 50.840 52.256 1.00 37.84 6 ATOM 237 C LEU A 30 34.902 48.527 54.262 1.00 37.84 6 ATOM 238 0 LEU A 30 35.033 49.601 54.841 1.00 37.58 8 ATOM 239 N LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 240 CA LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 242 CG LEU A 31 34.459 45.471 58.261 1.00 36.04 6 ATOM 243 CD1 LEU A 31 34.459 45.471 58.261 1.00 35.13 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.875 47.994 56.894 1.00 35.86 6 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 253 C LEU A 32 40.538 45.830 58.214 1.00 35.16 6 ATOM 253 C LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.840 49.513 56.780 1.00 37.73 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.85 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.85 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 34.84 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 35.88 6 ATOM 256 CA ARG A 33 38.848 50.326 57.644 1.00 35.88 6 ATOM 25									52.560	1.00 36.79	6
ATOM 236 CD2 LEU A 30 33.202 50.840 52.256 1.00 37.84 6 ATOM 237 C LEU A 30 34.902 48.527 54.262 1.00 34.89 6 ATOM 238 O LEU A 30 35.033 49.601 54.841 1.00 37.58 8 ATOM 239 N LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 240 CA LEU A 31 34.768 45.808 56.791 1.00 34.07 7 ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 242 CG LEU A 31 34.459 45.471 58.261 1.00 35.13 6 ATOM 243 CD1 LEU A 31 34.841 44.027 58.532 1.00 35.13 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 40.030 45.888 56.774 1.00 37.76 7 ATOM 253 C LEU A 32 38.420 49.513 56.780 1.00 37.76 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 37.73 6 ATOM 256 CA ARG A 33 38.846 50.326 57.644 1.00 37.73 6 ATOM 257 CB ARG A 33 38.847 51.270 55.150 1.00 31.52 6 ATOM 258 CG ARG A 33 38.848 52.652 53.042 1.00 31.52 6 ATOM 258 CG ARG A 33 38.848 52.652 53.042 1.00 31.52 6 ATOM 258 CG ARG A 33 38.848 52.652 53.042 1.00 32.53 6 ATOM 257 CB ARG A 33 38.507 52.752 51.581 1.00 43.44 6 ATOM 258 CG ARG A 33 38.507 52.752 51.581 1.00 43.44 6 ATOM 259 CD ARG A 33 38.507 52.752 51.581 1.00 43.44 6 ATOM 259 CD ARG A 33 38.507 52.752 51.581 1.00 43.44 6 ATOM 259 CD ARG A 33 38.548 51.469 49.497 1.00 52.27 6 ATOM 258 CG ARG A 33 38.548 51.469 49.497 1.00 52.27 6 ATOM 258 CG ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 260 NE ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7											
ATOM 237 C LEU A 30 34.902 48.527 54.262 1.00 34.89 6 ATOM 238 O LEU A 30 35.033 49.601 54.841 1.00 37.58 8 ATOM 239 N LEU A 31 34.761 47.366 54.897 1.00 34.85 6 ATOM 240 CA LEU A 31 34.763 47.276 56.350 1.00 34.85 6 ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 34.85 6 ATOM 242 CG LEU A 31 34.459 45.471 58.261 1.00 36.37 6 ATOM 243 CD1 LEU A 31 34.459 45.471 58.261 1.00 35.13 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 249 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 40.030 45.888 56.774 1.00 37.73 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 37.73 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 37.73 6 ATOM 255 CD LEU A 32 38.800 49.513 56.780 1.00 37.73 6 ATOM 255 CD ARG A 33 38.846 50.326 57.644 1.00 32.53 6 ATOM 255 CD ARG A 33 38.8481 52.652 53.042 1.00 32.53 6 ATOM 257 CB ARG A 33 38.8481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 32.53 6 ATOM 259 CD ARG A 33 38.3481 52.652 53.042 1.00 51.75 7 ATOM 260 NE ARG A 33 38.3481 52.652 53.042 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.3481 52.459 49.497 1.00 52.27 6 ATOM 263 NH2 ARG A 33 38.3481 51.469 49.497 1.00 52.27 6	MOTA					30					
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ATOM 238 O LEU A 30	MOTA	237	С	LEU	A	30	34.902	48.527	54.262	1.00 34.89	
ATOM 239 N LEU A 31 34.761 47.366 54.897 1.00 34.07 7 ATOM 240 CA LEU A 31 34.768 45.808 56.791 1.00 34.85 6 ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 242 CG LEU A 31 34.859 45.471 58.261 1.00 36.37 6 ATOM 243 CD1 LEU A 31 34.859 45.471 58.261 1.00 36.37 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.13 6 ATOM 245 C LEU A 31 35.976 47.994 56.894 1.00 35.86 6 ATOM 245 C LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 41.117 45.420 55.815 1.00 37.73 6 ATOM 253 C LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CD2 LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 256 CA ARG A 33 38.247 51.270 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.545 1.00 32.53 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NHL ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NHL ARG A 33 38.348 51.469 49.497 1.00 51.08 7 ATOM 263 NHL ARG A 33 38.348 51.469 49.497 1.00 51.08 7 ATOM 263 NHL ARG A 33 38.348 51.469 49.497 1.00 51.08 7 ATOM 263 NHL ARG A 33 38.348 51.469 49.497 1.00 51.08 7 ATOM 263 NHL ARG A 33 38.348 51.469 49.497 1.00 51.08 7 ATO							35 033	49.601	54.841	1.00 37.58	8
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ATOM 241 CB LEU A 31 34.768 45.808 56.791 1.00 36.37 6 ATOM 242 CG LEU A 31 34.459 45.471 58.261 1.00 36.04 6 ATOM 243 CD1 LEU A 31 34.841 44.027 58.532 1.00 35.13 6 ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 36.43 6 ATOM 245 C LEU A 31 35.976 47.994 56.894 1.00 36.43 6 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 40.030 45.888 56.774 1.00 35.16 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 37.73 6 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 CA ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.481 52.652 53.042 1.00 33.58 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 260 NE ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7	ATOM										
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ATOM 244 CD2 LEU A 31 35.228 46.357 59.194 1.00 35.86 6 ATOM 245 C LEU A 31 35.976 47.994 56.894 1.00 36.43 6 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 41.117 45.420 55.815 1.00 37.73 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.481 52.652 53.642 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.642 1.00 31.52 6 ATOM 259 CD ARG A 33 38.481 52.652 53.642 1.00 35.88 6 ATOM 259 CD ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 38.7771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.7771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.7771 52.459 48.823 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.7771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.7771 52.459 48.823 1.00 51.08 7								44.027	58.532	1.00 35.13	6
ATOM 245 C LEU A 31 35.976 47.994 56.894 1.00 36.43 6 ATOM 246 O LEU A 31 35.855 49.035 57.544 1.00 35.87 8 ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 41.117 45.420 55.815 1.00 35.16 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 36.58 8 ATOM 256 CA ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 257 CB ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.481 52.652 53.042 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 31.52 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 260 NE ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NH2 ARG A 33 38.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51											6
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ATOM 247 N LEU A 32 37.157 47.426 56.635 1.00 37.76 7 ATOM 248 CA LEU A 32 38.420 48.015 57.087 1.00 36.82 6 ATOM 249 CB LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.846 50.326 57.644 1.00 36.58 8 ATOM 256 CA ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 38.481 52.652 53.042 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 250 CD ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NH2 ARG A 33 38.771 52.459 48.823 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.885 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.885 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.885 1.00 51.08 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.885 1.00 51.08 7	ATOM	246	0	LEU	A	31	35.855	49.035			
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ATOM 249 CB LEU A 32 39.611 47.318 56.418 1.00 36.37 6 ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 41.117 45.420 55.815 1.00 35.16 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 38.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7								48 015	57.087	1.00 36.82	6
ATOM 250 CG LEU A 32 40.030 45.888 56.774 1.00 39.11 6 ATOM 251 CD1 LEU A 32 41.117 45.420 55.815 1.00 35:16 6 ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 250 NE ARG A 33 38.38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 43.44 6 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 38.7771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7											
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ATOM 252 CD2 LEU A 32 40.538 45.830 58.214 1.00 37.73 6 ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 250 NE ARG A 33 38.521 51.583 50.811 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 263 NH1 ARG A 33 38.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.885 1.00 51.08 7		251	CDI	LEU	A	32	41.117	45.420	55.815		
ATOM 253 C LEU A 32 38.500 49.513 56.780 1.00 34.84 6 ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.888 1.00 51.08 7							40.538	45.830	58.214	1.00 37.73	6
ATOM 254 O LEU A 32 38.846 50.326 57.644 1.00 36.58 8 ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7											
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ATOM 255 N ARG A 33 38.184 49.877 55.545 1.00 31.37 7 ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.882 1.00 51.08 7	ATOM	254	0	LEU	À	32	38.846				
ATOM 256 CA ARG A 33 38.247 51.270 55.150 1.00 32.53 6 ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATCM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATCM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATCM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATCM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7		255	N			33	38.184	49.877			
ATOM 257 CB ARG A 33 37.927 51.398 53.662 1.00 31.52 6 ATOM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATOM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATOM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATOM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATOM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATOM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7									55.150	1.00 32.53	6
ATCM 258 CG ARG A 33 38.481 52.652 53.042 1.00 35.88 6 ATCM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATCM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATCM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATCM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATCM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7										1.00 31.52	
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ATCM 259 CD ARG A 33 38.107 52.752 51.581 1.00 43.44 6 ATCM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATCM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATCM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATCM 263 NH2 ARG A 33 38.739 50.369 48.888 1.00 51.75 7	ATOM	258	CG	ARG	À						2
ATCM 260 NE ARG A 33 38.521 51.583 50.811 1.00 48.37 7 ATCM 261 CZ ARG A 33 38.348 51.469 49.497 1.00 52.27 6 ATCM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATCM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7		259	CD	ARG	À	3.3	38.107		_		0
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ATCM 262 NH1 ARG A 33 37.771 52.459 48.823 1.00 51.75 7 ATCM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7									49.497	1.00 52.27	6
ATCM 263 NH2 ARG A 33 38.739 50.369 48.858 1.00 51.08 7											7
203 NH2 ARG A 33 37 77 79 103 55 000 1 00 32 32 6											
	ATCM	263	NH2	ARG	A						
		264	C	ARG	A	33	37.274	52.102	25.989	1.00 32.32	0

					•							
> mo>4	265	o . <i>1</i>	ARG A	33		37.	471	53.	. 299	56.196	1.00 29.23	8
MOTA	-		PHE A	34		36	. 231	51.	. 445	56.484	1.00 32.58	7
MOTA				34			.216	52.	.096	57.304	1.00 32.69	6
ATOM			PHE A	34			. 952		. 232	57.359	1.00 31.22	['] 6
ATOM			PHE A				. 838		. 825	58.183	1.00 28.74	6
ATOM			PHE A	34					. 888	57.700	1.00 22.76	6
ATOM			PHE A	34			. 085			59.456	1.00 28.09	6
ATOM	271	CD2 1	PHE A	34			. 551		.322		1.00 23.70	6
MOTA	272	CE1	PHE A	34	•		.061		.441	58.472		6
ATOM		CE2	PHE A	34			. 524		. 873	60.235	1.00 24.59	
ATOM			PHE A	34		30	.781		.929	59.741	1.00 21.39	6
			PHE A	34		35	.734		.319	58.719	1.00 33.45	6
MOTA		-	PHE A	34		35	. 635	53	. 425	59.258	1.00 35.49	8
MOTA			LYS A	35		36	.276	51	.264	59.323	1.00 34.52	7
MOTA			LYS A	35			. 805	51	.360	60.678	1.00 36.51	6
MOTA			LYS A	35			.118	49	.977	61.235	1.00 36.47	6
MOTA			LYS A	35			.912		.074	61.343	1.00 40.81	6
MOTA	-			35			.246		.801	62.090	1.00 44.10	6
MOTA	281		LYS A	35			.347		.029	61.402	1.00 47.46	6
ATOM	_		LYS A	35		-	.601		.823	61.276	1.00 53.53	7
MOTA	283		LYS A	35			.054		.222	60.735	1.00 36.61	6
MOTA	284		LYS A				.352		.824	61.766	1.00 36.78	8
MOTA	285		LYS A	35			.794		.267	59.635	1.00 36.27	7
ATOM	. 286		ASP A	36					.090	59.592	1.00 39.71	6
MOTA	287	CA	ASP A	36			.980	22	.937	58.239	1.00 44.78	6
ATOM	288	CB	ASP A	36		-	.679		.892	58.075	1.00 47.10	6
ATOM	289	CG	ASP A	36			.863		3.352	58.906	1.00 44.02	8
MOTA	290		ASP A	36			. 803			57.106	1.00 48.43	8
MOTA	291	OD2	ASP A	36			. 943		1.682	59.789	1.00 39.99	6
ATOM	292	С	ASP A	36	٠		.508		1.530	60.536	1.00 40.76	8
ATOM	293	0	ASP A	36			0.023		5.258		1.00 38.59	7
ATOM	294	N	ALA A	37			3.506		1.919	59.007	1.00 37.14	6
ATOM	295	CA	ALA A	37			7.939		5.258	59.066	1.00 37.14	6
ATOM	296	CB	ALA A	37			5.857		5.402	58.000		6
ATOM	297	С	ALA A	37			7.354		5.549	60.446	1.00 38.34	8
ATOM	298	Ö	ALA A	37		31	7.391		7.687	60.928	1.00 37.32	7
ATOM	299	N	MET A	38		. 36	5.809		5.518	61.079	1.00 36.19	
ATOM	300	CA	MET A	38		3 (5.213		5.674	62.397	1.00 36.80	6
ATOM	301	CB	MET A			3 :	5.141		4.598	62.606	1.00 37.38	6
	302	CG	MET A			3:	3.938	5	4.717	61.673	1.00 37.60	6
MOTA	303	SD	MET A			3	2.887		6.165	61.999	1.00 33.61	16
MOTA	304	CE	MET A			3	2.398		5.824	63.680		6
ATOM .	305	c	MET A			3	7.262		5.582	63.502		6
ATOM	306	0	MET A			3	6.937	5	5.688	64.692		8
MOTA	307	N	ASN A			3	8.518		5.400	63.100		7
MOTA	308	CA.	ASN A				9.626	5	5.264	64.044		6
ATOM	309	CB.	ASN A				9.897	5	6.582	64.775		6
ATOM		CG	ASN A			_	0.213	5	7.717	63.825	1.00 32.34	6
ATOM	310		ASN A			4	1.128		7.521	63.009	1.00 31.85	8
MOTA	311		ASN A				9.455		8.800		1.00 30.92	7
ATCM	312						9.253	_	4.183		1.00 36.87	6
MOTA	313	C	ASN A				9.403		4.357		1.00 36.60	8
MOTA	314	0	ASN A				8.752		3.067		3 1.00 37.48	7.
ATOM	315	N	LEU A				8.341		1.933		5 1.00 39.66	6
ATOM	316	CA	LEU A			3	6.863		1.622			6
ATOM	317	CB	LEU A				5.858	_	2.712			
ATOM	. 318	CG	LEU A						2.261		-	6
MOTA	319		LEU A				4.448	_	2.989			
MOTA	320		LEU A				5.951		50.687			
ATOM	321	С	LEU ?				9.184					_
ATOM	322	0	LEU A				8.804	_	19.575			
MOTA	323	N	ILE A	41			0.337		50.889			
ATOM	324	CA	ILE 2				1.237		19.790			
ATOM	325	CB	ILE 2				0.780		49.141		-	_
MOTA	326	CG2				4	1.017		50.103			
	327	CG				4	11.513	3 4	47.824			
MOTA	328	· CD				4	11.085	5 4	46.71			
ATOM	329	c	ILE			4	12.684	1 1	50.29			-
MOTA	330	õ	ILE .			4	12.92	7	51,32	63.27	7 1.00 46.03	. 8
ATOM	220	-										

	1	3.7	3 CD 3	42		43.646	49.582	64.497	1.00 45.19	7
ATOM	331	N	ASP A				49.982	64.372	1.00 45.62	6
MOTA	332	CA	ASP A	42		45.049			1.00 45.02	6
MOTA	333	CB	ASP A	42		45.716	50.090	65.742		
ATOM	334	CG	ASP A	42		44.966	51.005	66.682	1.00 44.43	6
ATOM	335	OD1	ASP A	42		44.731	52.177	66.322	1.00 39.84	8
MOTA	336		ASP A	42		44.612	50.546	67.787	1.00 48.50	8
	337	C	ASP A	42		45.750	48.915	63.551	1.00 48.47	6
MOTA	-		-			45.316	47.757	63.547	1.00 49.85	8
ATOM	338	0	ASP A	42				62.864	1.00 49.24	7
MOTA	339	N	GLU A .			46.830	49.288			6
ATOM	340	CA	GLU A	43		47.553	48.325	62.028	1.00 50.79	
MOTA	341	CB	GLŲ A	43	-	48.820	48.956	61.431	1.00 49.90	6
ATOM	342	CG	GLU A	43		48.544	50.029	60.378	1.00 57.20	6
ATOM	343	CD	GLU A	43		49.808	50.537	59.690	1.00 59.56	6
	344		GLU A	43		50.517	49.721	59.061	1.00 65.05	8
ATOM		OE2	GLU A	43		50.095	51.750	59.772	1.00 57.82	8
MOTA	345					47.918	47.020	62.733	1.00 49.73	6
MOTA	346	C	GLU A	43			45.943	62.149	1.00 49.18	8
MOTA	347	0	GLU A	43		47.813		63.992	1.00 49.40	7
ATOM	348	N	LYS A	44		48.524	47.118		•	
ATOM	349	CA	LYS A	44		48.730	45.949	64.762	1.00 49.09	6
ATOM	350	CB	LYS A	44		49.317	46.418	66.093	1.00 52.46	6
ATOM	351	CG	LYS A	44		50.448	47.421	65.899	1.00 55.75	6
ATOM	352	CD	LYS A	44		51:167	47.749	67.201	1.00 58.74	6
	353	CE	LYS A	44		52.327	48.704	66.949	1.00 58.48	6
MOTA	354	NZ	LYS A	44		53.122	48.968	68.176	1.00 58.95	7
ATOM				44		47.638	44.897	64.994	1.00 47.63	6
MOTA	355	C	LYS A			47.932	43.738	65.290	1.00 45.13	8
MOTA	356	0	LYS A	44				64.854	1.00 45.25	7
MOTA	357	N	GLU A	45		46.379	45.298		1.00 43.23	6
ATOM	358	CA	GLU A	45		45.268	44.374	65.G46		
ATOM	359	CB	GLU A	45		44.024	45.143	65.514	1.00 41.19	6
ATOM-	360	CG	GLU A	45		44.192	45.859	66.844	1.00 36.83	6
ATOM	361	CD	GLU A	45		43.003	46.741	67.204	1.00 38.92	6
ATOM	362		GLU A	45		42.707	47.701	66.447	1.00 37.30	8
ATOM	363	OE2		45		42.368	46.479	68.253	1.00 36.33	8
			GLU A	45		44.969	43.660	63.726	1.00 43.04	6
MOTA	364	C				44.480	42.523	63.699	1.00 45.03	8
ATOM	365	0	GLU A	4.5			44.341	62.632	1.00 40.29	7
ATOM	366	N	LEU A	46		45.282		61.299	1.00 37.16	6
MOTA	367	CA	LEU A	46		45.042	43.823			6
MOTA	368	CB	LEU A	46		44.910	44.990	60.331		6
MOTA	369	CG	LEU A	46		44.822	44.658	58.845	1.00 39.22	
ATOM	370	CD1	LEU A	46		43.655	43.726	58.563	1.00 40.68	6
MOTA	371	CD2	LEU A	46		44.673	45.964	58.080	1.00 41.62	6
MOTA	372	С	LEU A	46		46.090	42.860	60.774	1.00 36.54	6
ATOM	373	0	LEU A	46		47.275	43.192	60.698	1.00 39.86	8
ATOM	374	N	ILE A	47		45.646	41.662	60.406	1.00 33.49	7
	375	CA	ILE A	47		46.540	40.657	59.844	1.00 30.51	6
MOTA	376	CB	ILE A	47		46.333	39.253	60.491	1.00 34.31	6
ATOM				47		47.346	38.262	59.930	1.00 32.16	6
ATOM	377		ILE A				39.328	62.010	1.00 32.65	6
MOTA	378		ILE A	47		46.504	39.846	62.448	1.00 38.97	6
MOTA	379		ILE A	47		47.858				6
MOTA	380	C	ILE A	47		46.196	40.570	58.362	1.00 28.36	
ATOM	381	0	ILE A	47		45.037	40.342	58.003	1.00 26.11	. 8
ATOM	382	N	LYS A	48		47.194	40.772	57.504	1.00 27.77	. 7
ATOM	383	CA	LYS A	48		46.985	40.713	56.056	1.00 25.80	6
ATOM	384	CB	LYS A	48		48.258	41.087	55.308	1.00 23.91	6
	385	CG	LYS A	48		48.056	41.273	53.811	1.00 24.90	6
MOTA				48		49.389	41.352	53.091	1.00 26.39	6
ATOM	386	CD	LYS A				41.864	51.679	1.00 27.71	6
ATOM	387	CE	LYS A	48		49.233	43.275	51.696	1.00 32.59	7
ATOM	388	NZ	LYS A	48		48.774			1.00 26.32	6
MOTA	389	С	LYS A	48		46.595	39.299	55.654		8
ATCM	390	0	LYS A	48		47072	38.325	56.235	1.00 27.85	
ATOM	391	N	SER A	49		45.735	39.183	54.653	1.00 24.73	7
ATOM	392	CA	SER A	49		45.299	37.876	54.205	1.00 27.36	6
ATOM	393	СВ	SER A	49		43.952	37.979		1.00 25.04	6
	394	OG	SER A	49		42.911	38.329	54.373	1.00 26.94	8
ATOM	395		SER A	49		46.322	37.211		1.00 28.97	6
· ATOM				49		47.095	37.885		1.00 31.89	8
ATOM	396	0	SER A	マフ		-1.023	5,.005		= = = >	

					. 00 20 71	7
1 mov4	397 N ARG A 50	46.315			1.00 29.71	
ATOM	991 11 1111	47.211	35.087	52.463	1.00 25.78	6
ATOM	550 cm	-		53.318	1.00 26.20	6
ATOM	399 CB ARG A 50					6
		47.687	33.204		1.00 22.71	
ATOM		48.818	32.468	54.890	1.00 22.95	6
MOTA	401 CD ARG A 50				1.00 19.20	7
ATOM.	402 NE ARG A 50	48.359	31.385			
	100 110 1	47.708	30.306	55.345	1.00 16.85	6
MOTA	,05 02	47.430	30.151	54.055	1.00 17.77	7 .
ATOM	404 NH1 ARG A 50				1.00 14.56	7
	405 NH2 ARG A 50	47.334	29.385	56.223		
ATOM	305 3 50	46.370	34.051	51.723	1.00 23.30	6
MOTA	300 0 2	45.319	33.635	52.206	1.00 16.92	8
MOTA	407 O ARG A 50			50.534	1.00 21.06	7
TOM	408 N PRO A 51	46.823	33.628		1.00 21.00	6
		48.021	34.038	49.789	1.00 20.50	
ATOM	105	46.086	32.633	49.761	1.00 22.69	6
ATOM	720		32.592	48.451	1.00 21.57	6
ATOM	411 CB PRO A 51	46.862			1.00 20.57	6 -
ATOM	412 CG PRO A 51	47.503	33.984	48.392		
		46.153	31.300	50.498	1.00 26.71	6
MOTA	7.1	47.071	31.066	51.293	1.00 31.32	8
ATOM	414 O PRO A 51			50.250	1.00 26.02	7
ATOM	415 N ALA A 52	45.176	30.435	50.230	1.00 25.76	6
	416 CA ALA A 52	45.151	29.121	50.876	1.00 23.70	
ATOM	7.0	43.720	28.585	50.933	1.00 21.42	6
ATOM	44, 02	46.013	28.227	50.000	1.00 26.31	6
ATOM	418 C ALA A 52		28.239	48.780	1.00 30.31	8
ATOM	419 O ALA A 52	45.878			1.00 26.80	7
	420 N THR A 53	46.909	27.464	50.608		
ATOM	920	47.759	26.578	49.831	1.00 27.52	6
ATOM		48.845	25.975	50.717	1.00 26.27	6
ATOM	422 CB THR A 53	40.045	25.053	51.641	1.00 29.51	8
ATOM	423 OG1 THR A 53	48.255			1.00 24.66	6
	424 CG2 THR A 53	49.522	27.076	51.502	1.00 24.00	
ATOM	721	46.908	25.462	49.209	1.00 26.58	6
ATOM	425	45.778	25.228	49.634	1.00 21.98	8
MOTA	426 O THR A 53		24.782	48.203	1.00 29.62	7
MOTA	427 N LYS A 54	47.455			1.00 32.62	6
ATOM	428 CA LYS A 54	46.739	23.713	47.507		6
		47.601	23.151	46.370	1.00 31.99	
MOTA	125	46.985	21.967	45.629	1.00 36.62	6
MOTA	450 00 000	45.733	22.352	44.866	1.00 40.69	.6
ATOM	431 CD LYS A 54			43.625	1.00 46.44	6
ATOM	432 CE LYS A 54	46.058	23.173		1.00 50.68	7
	433 NZ LYS A 54	46.844	22.393	42.614		6
ATOM	433 110 000	46.348	22.595	48.465	1.00 36.00	
MOTA	33. 0	45.277	21.991	48.330	1.00 34.77	8
MOTA	400 0	47.216	22.336	49.443	1.00 37.91	7
MOTA	436 N GLUA 55			50.433	1.00 36.96	6
ATOM	437 CA GLU A 55	46.979	21.290		1.00 40.29	6
	438 CB GLU A 55	48.240	21.100	51.281	1.00 40.25	6
MOTA		48.216	19.887	52.195	1.00 47.95	
MOTE	400 00 000	49.552	19.654	52.891	1.00 51.01	6
MOTA	440 CD GLU A 55		18.688		1.00 52.65	8
ATOM	441 OE1 GLU A 55	49.659			1.00 51.27	8
	442 OE2 GLU A 55	50,497	20.437	52.040		6
ATOM		45.771	21.609	51.322	1.00 34.10	_
atom		44.892	20.769	51.496	1.00 33.08	8
ATOM	7.4.2	45.723			1.00 32.39	7
ATOM	445 N GLU A 56					6
ATOM:	446 CA GLUA 56	44.621				6
	447 CB GLU A 56	44.824	24.714			2
ATOM	44, 05	46.204		53.758		6
ATOM	440 00 00	46.421			1.00 30.74	6
MOTA	449 CD GLU A 56		·			8
MOTA	450 OE1 GLU A 56	46.072				8
	451 OE2 GLU A 56	46.969	26.674			
MOTA		43.264	23.114	52.024		
ATOM	456	42.299		52.595	1.00 29.90	8
ATOM	453 O GLU A 56					7
ATOM	454 N LEU A 57	43.188	23.583	_		6
	455 CA LEU A 57	41.944		50.020		6
ATOM	7,5,5 0	42.132	24.10	3 48.629		0
ATOM	400 02 220	42.40		2 48.572	2 1.00 22.39	5
atom	457 CG LEU A 57	40 55				6
ATOM	458 CD1 LEU A 57	42.65				
	459 CD2 LEU A 57	41.21				
ATOM	460 C LEU A 57	41.47				
ATCM	400 C ==================================	40.28	4 21.74			_
ATOM	401 0 220	42.44	_		5 1.00 24.82	. /
arrom.	462 N LEUA 58	44.44		-		

75/263 Figure 17-8

ATOM	463	CA	LEU A	. 58	42.194	19.718	49.526	1.00 22.44	6
ATOM	464	CB	LEU A		43.434	19.027	48.965	1.00 21.02	6
ATOM	465	CG	LEU A		43.838	19.471	47.558	1.00 22.94	6
	466	CD1	LEU A		45.212	18.908	47.176	1.00 20.35	6
ATOM	467	CD2	LEU A		42.755	19.033	46.587	1.00 23.28	6
MOTA					41.797	19.054	50.835	1.00 25.20	6
ATOM	468	C	LEU A		41.456	17.867	50.854	1.00 25.20	8
ATOM	469	0	LEU A			19.794	51.938	1.00 25.44	7
MOTA	470	N	LEU A		41.858		53.211	1.00 25.24	6
ATOM	471	CA	LEU A		41.446	19.212	54.350	1.00 23.24	
ATOM	472	CB	LEU A		41.559	20.229			6 6 .
MOTA	473	CG	LEU A		42.956	20.490	54.912	1.00 27.05	•
ATOM	474	CD1	LEU A		42.912	21.565	56.001	1.00 24.76	6
MOTA	475	CD2	LEU A		43.492	19.184	55.474	1.00 26.99	6
ATOM	476	C	LEU A		39.991	18.807	53.045	1.00 24.22	6
MOTA	477	0	LEU A		39.548	17.794	53.581	1.00 21.18	8
MOTA	478	N	PHE A		39.270	19.615	52.270	1.00 25.00	7
MOTA	479	CA	PHE A		37.859	19.403	52.011	1.00 25.00	6
ATOM	480	CB	PHE A		37.054	20.560	52.605	1.00 26.34	6
ATOM	481	CG	PHE A	60	35.600	20.555	52.223	1.00 29.37	6
MOTA	482	CD1	PHE A		34.811	19.422	52.427	1.00 27.57	6
ATOM	483	CD2	PHE A	60	35.015	21.692	51.661	1.00 27.33	6
ATOM	484	CE1	PHE A	60	33.466	19.419	52.077	1.00 27.00	6
ATOM	485	CE2	PHE A		33.670	21.699	51.306	1.00 28.08	6
ATOM	486	CZ	PHE A	60	32.893	20.559	51.513	1.00 29.48	6
MOTA	487	С	PHE A	60	37.506	19.214	50.538	1.00 27.78	6
ATOM	488	0	PHE A	60	37.022	18.143	50.158	1.00 31.57	8
ATOM	489	N	HIS A	61	37.734	20.220	49.696	1.00 26.76	7
MOTA	490	CA	HIS A	61	37.376	20.056	48.287	1.00 28.84	6
MOTA	491	CB	HIS A	61	37.365	21.405	47.561	1.00 27.76	6
MOTA	492	CG	HIS A	61	36.385	22.396	48.117	1.00 30.54	6
MOTA	493	CD2	HIS A	61	35.056	22.549	47.907	1.00 33.74	6
MOTA	494	ND1	HIS A	61	36.750	23.401	48.987	1.00 34.02	7
ATOM	495	CE1	HIS A	61.	35.691	24.135	49.286	1.00 32.07	6
ATOM	496	NE2	HIS A	61	34.649	23.638	48.644	1.00 34.10	7
MOTA	497	С	HIS A	61	38.278	19.056	47.539	1.00 28.38	6
MOTA	498	0	HIS A	61	39.287	18.604	48.072	1.00 25.81	8
ATOM	499	N	THR A	62	37.895	18.705	46.310	1.00 32.88	7
ATOM	500	CA	THR A	62	38.658	17.749	45.488	1.00 34.68	6
ATOM	501	CB	THR A	62	37.715	16.739	44.778	1.00 34.36	6
MOTA	502	OG1	THR A	62	36.942	17.415	43.778	1.00 34.81	8
MOTA	503	CG2	THR A	62	36.759	16.112	45.778	1.00 34.33	6
MOTA	504	С	THR F	4 62	39.485	18.454	44.408	1.00 35.60	6
ATOM	505	0	THR A	62	39.017	19.418	43.790	1.00 30.85	8
ATOM	506	N	GLU A		40.700	17.958	44.166	1.00 37.38	7
MOTA	507	CA	GLU A	4 63	41.587	18.555	43.165	1.00 40.68	6
ATOM	508	CB	GLU A	4 63	42.759	17.626	42.840	1.00 43.75	6
ATOM	509	CG	GLU A	4 63	43.719	17.389	43.987	1.00 50.68	6
MOTA	510	CD	GLU A		45.026	16.760	43.529	1.00 55.36	6
ATOM	511	GE1	GLU 2		45.789	17.441	42.808	1.00 53.03	8
ATOM	512	OE2			45.285	15.585	43.883	1.00 59.56	8
ATOM	513	C	GLU A		40.894	18.939	41.860	1.00 39.26	6
ATOM	514	0	GLU A		40.771	20.116	41.535	.1.00 42.33	8
ATOM	515	N	ASP A		40.453	17.948	41.102	1.00 37.07	. 7
ATOM	516	CA	ASP A		39.782	18.224	39.845	1.00 36.98	6
ATOM	517	CB	ASP A		38.957	17.000	39.426	1.00 42.19	6
ATOM	518	ĊĠ	ASP A		38.037	16.501	40.533	1.00 47.66	6
ATOM	519		ASP A		37.039	17.193	40.851	1.00 47.95	8
ATOM	520		ASP A		38.325	15.413	41.091	1.00 50.07	8
ATOM	521	C	ASP A		38.908		39.906	1.00 33.40	6
	522	ō	ASP A		38.927	20.293	38.986	1.00 33.64	8
ATCM	523	N	TYR A		38.156	19.641	40.990	1.00 30.57	7
ATOM	524	CA	TYR A	. 65	37.286	20.806	41.157	1.00 29.65	6
ATOM	525	CB	TYR A		36.300	20.560	42.316	1.00 30.16	6
ATOM	526	CG	TYR A		35.557	21.790	42.810	1.00 28.49	6
ATOM	527	CD1			34.791	22.572	41.944	1.00 30.25	6
ATOM	528		TYR A		34.126	23.715	42.399	1.00 28.36	6
ATOM	348	US-1	TIN	. 03	24.170		555	20.20	-

ATOM	529 (CD2 1	TYR A		65		638		181	44.			28.28	6
ATOM			ryr A	-	65		980			44.			26.96 29.79	6 6
ATOM	531		TYR A		65		227		082	43.			28.53	8
MOTA	532	•	TYR A		65		568		201	41.			29.15	6
MOTA		-	TYR A	-	65		. 118		061	40.			30.45	8
ATOM			TYR A	-	65		. 860		128 926		270 °		26.61	7
MOTA			ILE A		66		122		041	42.			26.35	6
ATOM			ILE A		66		.986		652	43.			26.25	6
MOTA			ILE A		66		.998	22.	753	43.			21.20	6
MOTA			ILE A		66		.009 .264		. 341	44.			29.30	
MOTA			ILE A		66		. 478		.517		555		30.52	6
MOTA			ILE A		66	-	.761		. 504		381		28.07	6
ATOM			ILE A		66 66		.039		. 696		225		31.26	
ATOM			ILE A		67		.125		. 559		521	1.00	28.47	7
MOTA			ASN A		67		.902		.898		337	1.00	30.15	
MOTA	544 545		ASN A		67		.563		. 656		726		34.20	
MOTA	546		ASN		67		.712	21	.118		578		38.78	
ATOM ATOM			ASN		67	44	.674	21	.841		878		43.34	
ATOM	548		ASN .		67	43	.626		.845		956		37.14	
ATOM	549		ASN .		67	41	.020		.554		314		28.41	
ATOM .	550		ASN .		67		.494		.354		499		28.05	
ATOM	551	N	THR .		68		.733		.221		361		25.32	
ATOM	552	CA	THR .	Α	68		.787		.791		416		21.75	
ATOM	553	CB	THR	Α	68		.438		.111		500	1.00) 16.99) 16.99	
ATOM	554		THR		68		.620		.695		371		17.59	
MOTA	555	CG2	THR		68		.549		.591		.359 .732		22.13	
MOTA	556	С	THR		68		.633		.088		. 830		21.97	
ATOM	557	0	THR		68		.529		.582		.023		22.32	
ATOM	558	N	LEU		69		1.535		.956		. 482		0 23.97	
MOTA	559	CA	LEU		69		3.376		.982		.000		0 24.99	
MOTA	560	CB	LEU LEU		69 69		.023		.527		.548		0 29.08	в 6
MOTA	561	CG	LEU		69		.087		.416	43	.066	1.0		
MOTA	562 563		LEU		69		.942		.528	41	.120		0 28.69	
MOTA	564	CDZ	LEU		69		.772	27	7.757	39	.088		0 24.90	
ATOM ATOM	565	Ō	LEU		69	3 9	.683	28	3.921		. 674		0 25.0	
ATOM	566	Ň	MET		70	40	0.932		7.128		.218	1.0	0 24.6	7 7
ATOM	567	CA	MET		70		2.183		7.794		.897		0 23.63	
MOTA	568	CB	MET	A	70		3.358		5.953		.380		0 26.93 0 26.63	
ATOM	569	CG	MET		70		3.418		5.751		.884 .325		0 30.7	
MOTA	570	SD	MET		70		1.970		5.929 7.077		.642		0 23.2	
MOTA	571	CE	MET		70		5.137				.412		0 21.6	
MOTA	572	С	MET		70		2.324		8.040 9.041		.982		0 18.9	
MOTA	573	0	MET		70		1.769		7.122		632		0 23.9	
ATOM	574	N	GLU		71		1.859		7.204		.189		0 24.4	
ATOM	575	CA	GLU		71 71		1.681	2!	5.814	34	582	1.0	0 26.2	2 6
ATOM.	576	CB	GLU GLU		71		2.224		5.695		.167	1.0	0 31.7	5 6
ATOM	577	CD	GLU		71		3.737		5.905	33	.099	1.0	0 33.0	
MOTA	578 579	OE1			71		4.288		5.855		983		0 35.8	
MOTA	580	OE2			71		4.377		6.116	3 4	1.154		0 30.1	
MOTA	581	C	GLU		71		0.845		8.160		1.592		0 21.8	6 6
ATOM	582	õ	GLU	A	71		1.144		8.851		.626	-	00 21.5	
MOTA MOTA	583	N	ALA		72	3	9.649		8.197		.169		00 19.2	
ATOM	584	CA	ALA		72		8.589		9.067		1.684		00 19.3	39 6 23 6
MOTA	. 585	CB	ALA		72		7.298		8.743	_	5.39		00 19.2	
ATOM	586	C	ALA		72		8.931		0.536	_	4.899		00 26.7 00 26.1	
MOTA	587	O	ALA		72		8.711		1.383	_	4.01		00 28.4	
ATOM	588	N	GLU		73		9.470		0.835		6.07		00 28.4	_
ATOM	589	CA	GLU		73		9.820		2.202		6.43 7.93		00 25.8	
ATOM	590	CB	GLU		73		0.157		2.282	_	7.93. 8.34:		00 27.5	
ATOM	591	CG	GLU		73		0.646		3.655	_	9.84	-	00 29.3	_
ATOM	592	CD	GLU		73		0.840 9.841		13.806 13.776		0.58		00 32.4	
ATOM	593		1 GLU		73				3.96		0.27	_	00 31.	_
ATOM	594	OE.	2 GLU	A	. 73	4	1.996		, , , , , 0 (•			- *	

> mo>4	595	_	GLU A	73		40.946	32.840	35.615	1.00 31.83	6
ATOM		C						35.259		8
MOTA	596	0	GLU A	73		40.859	34.024		1.00 33.52	
ATOM	597	N	ARG A	74		41.992	32.071	35.309	1.00 31.45	.7
ATOM	598	CA	ARG A	74		43.128	32.611	34.557	1.00 30.65	6
			ARG A	74		44.405	31.826	34.874	1.00 32.12	6
ATOM	599	CB							1.00 31.42	
MOTA	600	CG	ARG A	74		44.514	30.467	34.205		6
MOTA	601	CD	ARG A	74		45.702	29.714	34.754	1.00 30.73	6
MOTA	602	NE	ARG A	74		46.041	28.561	33.933	1.00 34.18	7
	603	CZ	ARG A	74		46.646	28.634	32.748	1.00 35.55	6
ATOM								32.232	1.00 29.64	7
MOTA	604	NH1	ARG A	74		46.989	29.818			
ATOM	605	NH2	ARG A	74		46.906	27.514	32.079	1.00 34.07	7
MOTA	606	С	ARG A	74		42.894	32.623	33.051	1.00 28.61	6.
ATOM	607	0	ARG A	74		43.431	33.465	32.338	1.00 24.38	8
-			CYS A	75		42.107	31.673	32.566	1.00 28.32	7
ATOM	608	N						31.148	1.00 32.42	6
MOTA	609	CA	CYS A	75	•	41.796	31.619			
ATOM	610	CB	CYS. Y	75		41.687	30.167	30.682	1.00 32.91	6
ATOM	611	SG	CYS A	75		43.281	29.296	30.7 <i>77</i>	1.00 37.09	16
ATOM	612	С	CYS A	75		40.489	32.382	30.956	1.00 33.10	6
ATOM	613	Ō	CYS A	75		40.029	32.598	29.834	1.00 30.74	8
				76		39.914	32.787	32.088	1.00 34.42	7
MOTA	614	N	GLN A				33.575	32.144	1.00 33.20	6
MOTA	61,5	CA	GLN A	76		38.691				
MOTA	616	CB	GLN A	76		38.986	34.962	31.578	1.00 32.09	6
ATOM	617	CG	GLN A	76		38.089	36.064	32.094	1.00 39.46	6
ATOM	618	CD	GLN A	76		38.479	36.541	33.480	1.00 41.47	6
ATOM	619	OE1	GLN A	76		38.574	35.755	34.426	1.00 45.02	8
ATOM	620	NE2	GLN A	76		38.703	37.846	33.606	1.00 42.22	7
	621	С	GLN A	76		37.561	32.920	31.358	1.00 33.20	6
ATOM						36.732	33.598	30.760	1.00 34.19	8
MOTA	622	0	GLN A	76	•				1.00 31.81	7
ATOM	623	N	CYS A	77		37.522	31.598	31.370		
ATOM	624	CA	CYS A	77		36.511	30.862	30.627	1.00 31.47	6
MOTA	625	CB	CYS A	7 7		37.187	30.181	29.454	1.00 30.25	6
ATOM	626	SG	CYS A	77		38.479	29.071	30.044	1.00 33.94	16
ATOM	627	С	CYS A	77		35.851	29.795	31.498	1.00 31.97	6
	628	ō	CYS A	77		36.335	29.503	32.590	1.00 35.15	8
ATOM		•	VAL A	78		34.750	29.216	31.018	1.00 30.78	7
MOTA	629	N					28.139	31.747	1.00 30.55	6
ATOM	630	CA	VAL A	78		34.069				6
ATOM	631	CB	VAL A	78		32.539	28.287	31.720	1.00 30.06	
ATOM	632	CG1	VAL A	78		31.881	27.030	32.293	1.00 28.23	6
ATOM	633	CG2	VAL A	78		32.129	29.503	32.526	1.00 30.67	6
ATOM	634	С	VAL A	78		34.420	26.794	31.110	1.00 29.80	6
ATOM	635	0	VAL A	78		33.851	26.422	30.077	1.00 29.65	8
ATOM	636	11	PRO A	79		35.337	26.033	31.739	1.00 28.55	7
	637	CD	PRO A	79		35.985	26.335	33.025	1.00 24.39	6
MOTA							24.724	31.261	1.00 28.89	6
ATOM	638	CA	PRO A	79		35.793			1.00 24.49	6
MOTA	639	CB	PRO A	79		36.622	24.218	32.434		
MOTA	6 ` 0	CG	PRO A	79		37.239	25.500	32.922	1.00 25.68	6
ATOM	6.1	C	PRO A	79		34.668	23.776	30.881	1.00 30.13	6
ATOM	6.2	0	PRO A	79		33.697	23.624	31.615	1.00 30.87	8
ATOM	643	N	LYS A	90		34.796	23.136	29.727	1.00 33.44	7
	644	CA	LYS A	80		33.758	22.216	29.303	1.00 38.52	6
MOTA						34.202	21.421	28.076	1.00 45.18	6
MOTA	645	CB	LYS A	80					1.00 55.18	6
ATOM	646	CG	LYS A	80		35.450	20.589	28.278		
MOTA	647	CD	LYS A	80		35.788	19.827	27.000	1.00 60.80	6
MOTA	. 648	CE	LYS A	80		37.035	18.976		1.00 64.25	6
ATOM	649	NZ	LYS A	80		37.367	18.252	25.911	1.00 68.95	7
ATOM	650	C	LYS A	80		33.411	21.267	30.443	1.00 36.56	6
	651		LYS A	80		34.293	20.775	31.164	1.00 31.61	8
ATOM		0				32.112	21.035	30.602	1.00 32.57	7
MOTA	652	N	GLYA	81					1.00 29.81	6
MOTA	653	CA	GLY A	81		31.634	20.155	31.648		
ATOM	654	С	GLY A	31		31.477	20.884	32.965	1.00 28.30	6
ATOM	655	0	GLY A	31		30.544	20.612	33.723	1.00 25.49	8
ATOM	656	N	ALA A	82		32.380	21.830	33:218	1.00 25.99	7
ATOM	657	CA	ALA A	82		32.384	22.602	34.458	1.00 26.72	6
	558	CB	ALA A	82		33.485	23.674	34.406	1.00 22.64	6
ATOM		C				31.066	23.245	34.886	1.00 27.84	6
MOTA	659		ALA A	82			23.224	36.068	1.00 30.00	8
ATOM	660	0	ALA A	82		30.729	23.224	20.008	2.00 30.00	•

PCT/US00/24700

							22 051	1.00 31.15	7
ATOM	661 N	AF	RG A	83	30.310	23.811		1.00 32.50	6
ATOM	662 C	A AI	RG A	83	29.071	24.462			6
ATOM	663 C	B AI	RG A	83	28.285	24.941		1.00 37.19	
ATOM	664 C		RG A	83	27.439	26.189	33.408	1.00 42.23	6
ATOM		_	RG A	83	26.480	26.020	34.585	1.00 48.02	6
			RG A	83	25.904	27.303	34.996	1.00 53.00	7
ATOM-	-	_	RG A	83	25.046	27.460	36.005	1.00 56.84	6 .
ATOM			RG A	83	24.649	26.413	36.724	1.00 53.05	7
ATOM			RG A	83	24.588	28.672	36.304	1.00 58.03	7
ATOM			RG A	83	28.208	23.531	35.189	1.00 31.50	5
ATOM	670 C		RG A	83	28.056	23.749	36.386	1.00 29.62	8
ATOM	671 C			84	27.648	22.491	34.581	1.00 33.06	7
MOTA	672 N		LU A	84	26.819	21.568	35.343	1.00 35.40	6
ATOM	-		LU A	84	26.112	20.562	34.417	1.00 37.35	6
MOTA			LU A	84	26.989	19.684	33.496	1.00 40.01	6
ATOM			LU A	84	27.551	20.418	32.267	1.00 44.49	6 -
ATOM			LU A	84	27.925	19.723	31.292	1.00 41.12	8
MOTA			LU A	84	27.636	21.671	32.270	1.00 41.01	8
MOTA			LU A	84	27.617	20.823	36.417	1.00 35.42	6
ATOM		_	SLU A	84	27.246	20.816	37.594	1.00 34.66	8
ATOM			YS A	85	28.727	20.226	36.002	1.00 35.21	7
ATOM				85	29.604	19.450	36.878	1.00 37.93	6
ATOM			YS A	85	30.841	19.030	36.076	1.30 40.61	6
MOTA			YS A	85	31.739	17.977	36.706	1.00 42.63	6
MOTA			LYS A	85	31.038	16.640	36.872	1.00 45.48	6
ATOM			LYS A LYS A	85	32.054	15.523	37.078	1.00 45.60	6
MOTA			LYSA	85	33.032	15.833	38.154	1.00 46.16	7
MOTA			LYS A	85	30.032	20.159	38.175	1.00 37.56	6
ATOM			LYS A	85	30.161	19.516	39.222	1.00 38.40	8
MOTA			TYR A	86	30.254	21.472	38.116	1.00 35.60	7
ATOM		-	TYR A	86	30.671	22.216	39.307	1.00 32.67	6
ATOM			TYR A	86	32.151	22.610	39.200	1.00 32.09	6
ATOM			TYR A	86	33.065	21.424	38.995	1.00 33.63	6
ATOM			TYR A	86	33.120	20.393	39.932	1.00 32.12	6
MOTA			TYR A	86	33.918	19.266	39.723	1.00 33.59	6
MOTA			TYR A	86	33.839	21.306	37.841	1.00 33.82	6
atom atom			TYR A	86	34.645		37.623	1.00 34.55	6
ATOM			TYR A	86	34.675		38.566	1.00 32.38	6 8
ATOM	699		TYR A	86	35.431		38.336	1.00 29.17	6
ATOM	700		TYR A	86	29.831		39.597	1.00 30.21 1.00 29.12	8
ATOM	701	0	TYR A	86	30.192		40.445	1.00 29.12	7
ATOM	702	N .	ASN A	87	28.712		38.893	1.00 28.58	6
ATOM	703	CA	ASN A	87	27.797		39.086	1.00 25.63	6
ATOM	704		ASN A	87	27.154		40.470	1.00 28.05	6
ATOM	705	CG	ASN A	87	25.871		41.672	1.00 71.32	8
ATOM	706		ASN A	87	25.275	_	39.506	1.00 . 8.35	7
ATOM	707		ASN A	87	25.434			1.00 10.35	6
ATOM	708		ASN A	87	28.580			1.00 32.07	8
ATOM	709		ASN A	87	28.319			1.00 32.05	7
ATOM	710		ILE A	88	29.545				6
ATOM	711	CA	ILE A	88	30.407				6
ATOM	712	CE	ILE A	88	31.894				6
ATOM	713		ILE A		32.759 32.35				6
ATOM	714		ILE A						6
MOTA	715		ILE A		32.35				6
ATOM	716	C	ILE A		30.085 29.70				8
MOTA	717	0	ILE A						7
MOTA	718	N	GLY A		30.23° 29.99				6
ATOM	719	CA	GLY A		28.69				6
ATOM	720	C	GLY A		28.69			1.00 30-42	8
ATOM	721	O.	GLY A		27.67			1.00 31.51	7
ATOM	722	N	GLY A		26.38			1.00 32.92	5
ATOM	723	CA	GLY A		26.30			1.00 34.32	
ATOM	. 724	C	GLY A		27.30			9 1.00 33.97	
. TCM	725	0	GLY A		25.14				7
ATOM	726	N	TYR A				•		

										_
ATOM	727	CA	TYR A	91		24.924	34.146	37.206	1.00 35.76	6
							34.589	37.058	1.00 38.10	6
ATOM	728	CB	TYR A	91		23.465				
MOTA	729	CG	TYR A	91		23.089	35.733	37.990	1.00 42.40	6
									1.00 43.57	6
ATOM	730	CD1	TYR A	91		23.417	37.057	37.688		
ATOM	731	CE1	TYR A	91		23.105	38.106	38.577	1.00 42.44	6
									1.00 44.07	6
ATOM	732	CD2	TYR A	91		22.444	35.484	39.205		
N IDOM	733	CE2	TYR A	91		22.132	36.526	40.097	1.00 42.67	6
MOTA								39.775	1.00 42.41	6
ATOM	734	CZ	TYR A	91		22.462	37.825			
ATOM	735	OH	TYR A	91		22.130	38.835	40.646	1.00 43.69	8
								38.701	1.00 34.15	6
ATOM	736	С	TYR A	91		25.242	34.082			
MOTA	737	0	TYR A	91		25.821	35.014	39.266	1.00 29.52	8
								39.333	1.00 34.78	7
ATOM	738	N	GLU A	92		24.837	32.986			
ATOM	739	CA	GLU A	92		25.024	32.797	40.767	1.00 38.46	6
				92		24.233	31.564	41.211	1.00 43.99	6
ATOM	740	CB	GLU A							
ATOM	741	CG	GLU A	92		23.932	31.489	42.700	1.00 52.10	6
		CD	GLU A	92		23.294	30.161	43.097	1.00 58.00	6
MOTA	742									
ATOM	743	OE1	GLU A	92		24.001	29.126	43.058	1.00 60.63	8
	744	OE2	GLU A	92		22.087	30.149	43.434	1.00 59.58	8
ATOM									1.00 36.42	6
ATOM	745	C	GLU A	92		26.492	32.669	41.208		
ATOM	746	0	GLU A	92		26.902	33.287	42.193	1.00 32.92	8
						27.280	31.883	40.473	1.00 34.12	7
ATOM	747	N	ASN A	93						
ATOM	748	CA	ASN A	93		28.693	31.671	40.808	1.00 33.24	6
				93		28.871	30.259	41.364	1.00 28.52	6
MOTA	749	CB	ASN A							
MOTA	750	CG	ASN A	93		27.734	29.859	42.299	1.00 27.45	6
	751		ASN A	93		27.547	30.457	43.355	1.00 21.76	8
MOTA										7
MOTA	752	ND2	ASN A	93		26.956	28.853	41.895	1.00 21.79	
ATOM	753	С	ASN A	93		29.529	31.843	39.535	1.00 35.04	6
							30.898	39.059	1.00 33.81	8
MOTA	754	0	ASN A	93		30.160				
ATOM	755	N	PRO A	94		29.583	33.081	39.010	1.00 36.19	7
						28.970	34.231	39.690	1.00 34.62	6
MOTA	756	CD	PRO A	94						
ATOM .	757	CA	PRO A	94		30.274	33.560	37.808	1.00 34.80	6
	758	CB	PRO A	94		29.924	35.050	37.791	1.00 33.94	6
ATOM										6
ATOM	759	CG	PRO A	94		28.619	35.095	38.516	1.00 36.13	
ATOM	760	C	PRO A	94		31.775	33.379	·37.733	1.00 34.63	6
					-		33.103	38.730	1.00 34.72	8
ATOM	761	0	PRO A	94		32.443				
ATOM	762	N	VAL A	95		32.299	33.556	36.526	1.00 33.57	7
	763		VAL A	95		33.735	33.499	36.307	1.00 30.31	6
MOTA		CA								
MOTA	764	CB	VAL A	95		34.085	33.171	34.841	1.00 29.88	6
MOTA	765	CG1	VAL A	95		35.561	33.453	34.574	1.00 29.53	6
							31.713	34.563	1.00 28.05	6
ATOM	766	CG2	VAL A	95		33.795				
ATOM	767	С	VAL A	95		34.195	34.910	36.624	1.00 29.86	б
			VAL A	95		33.524	35.879	36.272	1.00 29.07	8
MOTA	768	0								7
ATOM	769	N	SER A	96		35.318	35.019	37.317	1.00 30.89	
	770	CA	SER A	96		35.889	36.310	37.68 7	1.00 32.27	6
MOTA								38.501	1.00 30.16	6
MOTA	771	CB	SER A	96		34.885	37.145			
ATCM	772	OG	SER A	96		34.600	36.545	39.756	1.00 26.77	8
				96		37.111	35.993	38.537	1.00 32.96	6
MOTA	773	С	SER A							-
ATOM	774	0	SER A	96		37.603	34.865	38.511	1.00 33.77	8
ATOM	775	N	TYR A	97		37.609	36.973	39.282	1.00 32.66	7
									1.00 31.95	6
ATOM	776	CA	TYR A	97		38.753	36.712	40.132		
ATOM	777	CB	TYR A	97		39.838	37.766	39.923	1.00 31.81	6
									1.00 30.39	6
ATOM	778	CG	TYR A	97		40.416	37.729	38.525		-
ATOM	779	CD1	TYR A	97		39.820	38.434	37.479	1.00 30.63	6
				97		40.327	38.358	36.178	1.00 28.49	6
ATOM	780		TYR A							Č
ATOM	781	CD2	TYR A	97		41.536	36.945	38.236	1.00 28.43	6
			TYR A	97		42.046	36.858	36.942	1.00 24.73	6
MOTA	782	CE2							1.00 27.27	6
MOTA	783	CZ	TYR A	97		41.437	37.565	35.919		
ATOM	784	OH	TYR A	97		41.915	37.455	34.633	1.00 26.70	8
								41.596	1.00 31.10	6
ATOM	785	С	TYR A	97		38.350	36.618			
ATOM	786	0	TYR A	97		39.178	36.735	42.495	1.00 33.01	8
						37.059	36.398	41.818	1.00 31.11	7
ATOM	787	N	ALA A	98						
ATOM	738	CA	ALA A	98		36.510	36.241	43.160	1.00 30.06	5
		CB	ALA A	98		35.141	36.920	43.256	1.00 27.71	6
ATOM	789							43.357	1.00 31.24	6
ATCM	-00	C	ALA A	98		36.350	34.736			
ATCM	791	0	ALA A	98		36.335	34.238	44.487	1.00 29.66	8
		N	MET A	99		36.249	34.030	42.230	1.00 29.50	7
ATOM	792	TA	WEI W			30.23	J4.050			

ATOM ATOM ATOM	794	CB M	ET A ET A	99 99 99	35. 36.	048 774 942	32.589 32.123 32.265	42.207 40.778 39.822	1.00 3 1.00 3 1.00 3	30.48 29.63	6 6 6 16
ATOM			ET A	99		426	31.939 30.273	38.126 38.347	1.00		6
MOTA	-		ET A	99 99		.629 .199	31.800	42.783	1.00	30.81	6
ATOM		_	ET A ET A	99		993	30.757	43.406	1.00	30.59	8
ATOM ATOM			HE A		38	417	32.274	42.569	1.00		7
ATOM			HE A		39	.554	31.557	43.114	1.00		6
ATCM			HE A			.322	30.817	42.029 42.578	1.00		6 6
ATOM			HE A			.434	29.979 28.862	43.364		41.84	6
MOTA		CD1 E	PHE A	100	41	.152 .768	30.339	42.372		42.18	6
MOTA	805 806	CE1 I	THE A	100	42	.185	28.115	43.941		41.63	6
MOTA MOTA			PHE A			.808	29.600	42.944	1.00	40.50	6
ATOM		CZ !	HE A	100		.517	28.487	43.729		39.89 33.98	6 6
ATOM		C 1	PHE A	100		.519 .706	32.438 32.231	43.895 45.088		38.21	8
MOTA			PHE A			.137	33.415	43.245		28.09	7
MOTA			THR A			.063	34.261	43.969	1.00	22.19	6
ATOM ATOM	813			101		.623	35.378	43.072		22.48	6
ATOM	814		THR A			.441	34.795	42.052		21.99	8 6
ATOM	815		THR A			.468	36.335	43.876 45.205		21.71	6
MOTA	816			101		.408 .988	34.860 34.845	46.282		23.82	8
MOTA	817			A 101 A 102		.197	35.377	45.068	1.00	21.79	7
MOTA MOTA	818 819	.N СЭ	GLY A	102		.533	35.947	46.231		21.23	6
ATOM	820	C	GLY A	102		.072	34.833	47.153		23.03 20.41	6 8
ATOM	821	0	GLY A	A 102		.209	34.909 33.792	48.378 46.544		22.59	7
ATOM	822			103		1.512	33.792	47.276		26.51	6
ATOM	823 824			A 103 A 103		.454	31.598	46.314	1.00	28.10	6
ATOM ATOM	824 825			A 103		3.314	32.099			32.01	8
MOTA	826		SER A	A 103		.188	32.040	48.032		27.73 30.61	6 8
ATOM	827	Ç		A 103		0.019	31.544 32.080	49.144		28.76	7
MOTA	828	11		A 104 A 104).364 L.590	31.552	48.008	1.00	28.55	6
ATOM	829 830	CA CB		A 104		2.769	31.683	47.039		28.74	6
MOTA MOTA	831	OG	SER .	A 104	42	2.501	31.044	45.804		35.04 25.67	8 6
ATOM	832	С	SER .	A 104		1.870	32.401	49.226 50.338		25.17	8
ATOM	833	0		A 104		2.026 1.909	31.897 33.705			23.91	7
ATOM	834	K CA	LEU	A 105 A 105		2.163	34.698		1.00	23.01	6
ATOM ATOM	835 836	CB		A 105		2.049				23.57	6
ATOM	837	CG	LEU	A 105		3.158				26.30 22.38	6 6
ATOM	838	CD1	LEU	A 105		4.502				27.36	
ATOM	839		LEU	A 105		2.823 1.187				23.48	. 6
ATCM	840 841	C O		A 105 A 105		1.604		52.331	1.00	21.60	8
MOTA MOTA	842	N		A 106		9.887	34.556		•	25.32	
ATOM	843	CA	ALA	A 106		8.884				26.04 24.28	
ATOM	844	СЗ		A 106		7.471				25.76	6
MOTA	845	C	ALA	A 106		9.088 8.953				22.75	8
ATOM	846 847	N 0	ALA	A 106 A 107		9.410		52.11	1.00	25.65	
MOTA MOTA	848	CA	THR	A 107		9.620	30.760	52.754		25.54	
ATOM	849	C3	THR	A 107		9.706				0 21.92 0 26.40	
ATOM	850	OG1		A 107		8.559				0 17.36	_
ATOM	851	CG2	THR	A 107		9.742			_	0 28.16	5 6
ATCM	852	c o	THR	A 107 A 107		0.90		4 54.72	7 1.0	0 28:07	7 8
ATOM	853 854	N .	GLY	A 108		1.99	31.19	1 52.99	6 1.0	0 28.5	
aton aton	855	ÇA	GLY	A 108	4	3.24	7 31.18		_	0 28.3° 0 30.29	
ATCM	856	C .	GLY	A 108	4	3.02	7 31.92			0 30.20	
ATCM	857	o i	GLY	A 108		3.50 2.28				0 24.8	_
ATOM	858	N	ŞER	A 109	4	2.20	, ,,	- ,			

Figure 17-14

		_				000	22 010	56.119	1.00 2	24 86	6
ATOM	859	CA	SER A 1	.09	42.	. 002	33.810				
ATOM	860	CB	SER A 1	0.9	41	. 222	35.066	55.727	1.00	24.74	6
							35.898	54.872	1.00 2	21 07	8
ATOM	861	OG	SER A 1	.09		.992					
MOTA	862	С	SER A 1	0.9	41	.240	32.996	57.173	1.00	27.89	6
							33.214	58.377	1.00	30 92	8
ATOM	863	0	SER A 1	.09		.424					
MOTA	864	N	THR A 1	10	40.	. 389	32.064	56.744	1.00	23.91	7
							31.259	57.721	1.00	24 80	6
MOTA	865	CA	THR A 1	110		. 676					
ATOM	866	CB	THR A 1	10	38	. 641	30.290	57.074	1.00	29.65	6
						.469	31.016	56.669	1.00	30 45	8
MOTA	867	OG1	THR A 1	110							
ATOM	868	CG2	THR A 1	10	38	.228	29.205	58.067	1.00	29.00	6
			THR A 2			.712	30.449	58.478	1.00	24.34	6
ATOM	869	C									
ATOM	870	0	THR A 1	110	40	.615	30.282	59.699	1.00	24.74	8.
			VAL A 1		41	.715	29.954	57.764	1.00	23.01	7
ATOM	871	N									6
ATOM	872	CA	VAL A	111	42	.759 .	29.173	58.416	1.00		
	873	CB	VAL A 1	111	43	. 695	28.495	57.391	1.00	25.77	6
MOTA								58.121	1 00	22.51	6
MOTA	874		VAL A			.845	27.773				
ATOM	875	CG2	VAL A 1	111	42	.888	27.502	56.534	1.00	22.67	6
						.576	30.071	59.329	1 00	23.14	· 6
MOTA	876	С	VAL A	141							
ATOM	877	0	VAL A	111	43	.720	29.793	60.518	1.00	24.11	8
			GLN A		ΛΛ	.101	31.156	58.772	1.00	24.94	7
ATOM	878	N								25.12	6
ATOM	879	CA	GLN A	112		.895	32.100	59.554			
	880	CB	GLN A	112	45	.082	33.413	58.779	1.00	25.14	6
ATOM								57.330	1 00	28.51	6
MOTA	881	CG	GLN A	112	45	.545	33.224				
ATOM	882	CD	GLN A	112	45	.789	34.534	56.594	1.00	29.13	6
						.779	35.219	56.837	1 00	31.22	8
ATOM	883		GLN A								=
ATOM	884	NE2	GLN A	112	44	. 877	34.890	55.694	1.00	29.31	7
			GLN A		11	.107	32.362	60.827	1.00	24.62	6
ATOM	885	C									8
ATOM	886	0	GLN A	112	44	.647	32.311	61.939		21.10	
-	887	11	ALA A	113	42	.813	32.622	60.644	1.00	24.41	7
MOTA								61.751		23.33	6
ATOM	888	CA	ALA A	113		.914	32.904				
ATOM	889	CB	ALA A	113	40	.516	33.183	61.224	1.00	19.80	6
						.901	31.733	62.729	1 00	25.34	6
MOTA	890	С	ALA A								
MOTA	891	0	ALA A	113	41	.925	31.930	63.946	1.00	27.52	8
			ILE A		41	.859	30.509	62.211	1.00	24.39	7
ATOM	892	Ņ								24.49	6
ATOM	893	CA	ILE A	114	41	.867	29.356	63.106			
ATOM	894	CB	ILE A	:14	41	.524	28.042	62.371	1.00	23.46	6
						.902	26.855	63.227	1 00	18.97	6
ATOM	895	CG2	ILE A	174							
ATOM	896	CG1	ILE A	114	40	.030	28.015	62.034		21.17	6
	897	CD1		1 1 .1	२०	.598	26.791	61.239	1.00	22.51	6
ATOM								63.757		24.32	6
ATOM	898	С	ILE A			.230	29.227				
ATOM	899	0	ILE A	114	43	.328	28.817	64.907		24.74	8
			GLU A			.280	29.580	63.019	1 00	26.58	7
ATOM	900	N								25.89	6
ATOM	901	CA	GLU A	115	45	.638	29.518	63.551			
	902	CB	GLU A		46	.639	29.992	62.508	1.00	22.63	6
MOTA						.554	29.264	61.192	1 00	20.39	6
ATOM	903	CG	GLU A			-					
ATOM	904	CD	GLU A	115	17	.668	29.670	60.244	1.00	21.39	6
			GLU A		17	.848	30.887	60.016	1.00	19.60	8
ATOM	905						20.007			22.53	8
ATOM	906	OE2	GLU A	115	18	.362	28.769	59.722			
	907	С	GLU A		45	.724	30.422	64.774	1.00	27.56	6
MOTA							30.006	65.837	1 00	25.98	8
λ TOM	908	0	GLU A			.173					
MOTA	909	N	GLU A	115	45	.267	31.660	64.615		31.19	7
						.282	32.631	65.705	1.00	35.80	6
MOTA	910	CA	GLU A								
ATOM	911	CB	GLU A	116	44	.676	33.959	65.237		36.91	6
	912	ĊG	GLU A		45	.434	34.605	64.069	1.00	41.14	6
MOTA								64.420		43.09	6
MOTA	913	CD	GLU A	116	46	.872	34.982				
	914	OF1	GLU A	116	47	.072	35.886	65.267	1.00	43.42	8
MOTA							34.369	63.849		41.76	8
ATOM	915	CE2	GLU A			.802					
ATOM	916	С	GLU A	116	44	1.543	32.131	66.947		35.11	6
						.054	32.228	68.061	1.00	37.26	8
ATOM	917	0	GLU A								7
ATOM	918	N	PHE A	117	43	3.343	31.598	66.761		34.30	
		CA	PHE A		17	2.577	31.096	67.893	1.00	34.44	5
ATOM	919							67.415		35.45	6
ATOM	920	CB	PHE A	11/		1.300	30.399				
ATOM	921	CG	PHE A	117	40	383	29.979	68.533		37.14	6
			PHE A			705	30.930	69.290	1.00	35.80	6
ATOM:	922									41.05	6
ATOM	923	CD2	PHE A	11/		0.196	28.630	68.832			
ATOM	924		PHE A		38	3.853	30.549	70.323	1.00	38.08	6
W I CITI	2 - 4		- -•					•			

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	925	E2 PHE	2 117		39.	.338	28.234	69.874	1.00 40		6
atom			117			. 668	29.198	70.617	1.00 3	8.64	6
ATOM	926 (A 117						1.00 3		6
ATOM	927	C PHE	A 117		43	.424	30.094	68.669			
					43	.490	30.136	69.898	1.00 3	3.54	8
MCTA	928		A 117				29.194	67.933	1.00 3	3.14	7
ATOM	929 1	N LEU	A 118			.069			1.00 3	2 62	
			A 118		44	.898	28.158	68.523	1.00 3	2.62	6
ATOM-							27.056	67.488	1.00 3	0.59	6
ATOM	931	CB LEU	A 118			.155	27.030		1.00 2		6
		CG LEU	A 118		43	.900	26.297	67.038			
MCTA	932					.244	25.232	65.996	1.00 2	0.81	6
ATOM	933	CD1 LEU	A 118					68.257	1.00 2		6
ATOM	934	CD2 LEU	A 118		43	.259	25.662	68.257			
			A 118		46	.216	28.696	69.084	1.00 3		6
MOTA	935						27.964	69.708	1.00 3	6.15	8
ATOM	936	o LEU	A 118			.983		_	1.00 3	4 75	7
· ·	-	N LYS	A 119	•	46	.481	29.974	68.843	1.00 3	4.75	
MOTA					47	.679	30.609	69.365	1.00 3	4.34	6
ATOM	938		A 119				31.739	68.448	1.00 3	3.52	6
MCTA	939	CB LYS	A 119			.143					
			A 119		48	.614	31.270	67.100	1.00 3		•
MOTA	-					.111	32.430	66.263	1.00 4	3.40	6
MOTA	941		A 119						1.00 4	6 52	6
ATOM	942	CE LYS	A 119		49	.691	31.928	64.949			
			A 119		50	.167	33.050	64.092	1.00 5		7
MOTA	943	NZ 213	3 110			.273	31.191	70.705	1.00 3	34.85	6
ATOM	944	C LYS	A 119						1.00		8
MCTA	945	O LYS	A 119		48	.112	31.465	71.562			
			A 120		45	.967	31.372	70.869	1.00 3	54.15	7
ATOM	946					.431	31.927	72.094	1.00	36.25	6
ATOM	947		A 120		_				1.00		6
	948	C GLY	A 120		44	.860	33.310	71.851	1.00	59.02	
ATOM		c cri	3 120		Λ Δ	.640	34.072	72.796	1.00 -	4 0.23	8
ATOM	949		A 120					70.586	1.00		7
MOTA	950	N ASN	1 A 121			1.619	33.644				6
	951	CA ASN	1 A 121		44	1.079	34.956	70.247	1.00		
MCTA		CA ASI			1/	.928	35.624	69.170	1.00	39.57	6
ATOM	952		1 A 121	•					1.00		6
ATOM	953	CG ASI	N'A 121			5.340	35.871				. 8
	954	OD1 ASN	J 2 121		4	7.078	34.938	69.926	1.00		
MOTA						5.727	37.134	69.675	1.00	43.63	7
ATOM	955		N A 121					· · · · · · · · · · · · · · · · · · ·	1.00	76 59	6
MOTA	956	C ASI	N A 121		42	2.637	34.893				
			N A 121		4:	2.037	33.818	69.704	1.00		8
MOTA	957	0 ASI	121			2.092	36.061		1.00	33.53	7
ATOM	958		L A 122							34.77	6
ATOM	959	CA VAI	L A 122		4	0.720	36.166	68.976			
		CB VAI	L A 122		3 9	9.861	37.064	69.898		38.20	6
ATOM	960	CB VA				8.418	37.096	69.388	1.00	37.55	6
ATOM	961	CG1 VA	L A 122							37.77	6.
ATOM	962	CG2 VA	L A 122		3	9.918	36.553				
		C WA	L A 122		4	0.731	36.781	. 67.596		31.08	6
MCTA	963	C VA	122			0.991	37.967	67.441	1.00	34.19	8
ATOM	964		L A 122							31.14	7
MCTA	965	N AL	A A 123			0.451	35.975			30.36	6
		CA AL	A A 123		4	0.451	36.476	65.231		30.26	
ATOM	966	CA AD			1	1.307	35.588	64.327	1.00	32.14	6
ATOM	967	CB AL	A A 123							28.26	6
ATOM	968	C AL	A A 123		3	9.038					8
	969		A A 123		3	8.132	35.92			29.28	
ATOM		0 70				8.875		63:631	1.00	28.70	7
ATOM	970		E A 124						1 00	28.38	6
ATOM	971	CA PH	E A 124			7.601				20.36	6
			E A 124		3	6.920	38.71	3 63.563	1.00	29.16	
ATOM	972					5.645			1.00	31.20	6
MCTA	973		E A 124							32.00	6
ATOM	974	CD1 PH	E A 124			4.679					6
		מם כתם	E A 124		3	5.378	40.43			29.53	
ATOM	975	- CD2 PD				3.463			3 1.00	30.74	6
ATOM	976	CE1 PH	E A 124							27.45	6
ATOM	977	CE2 PH	E A 124		_	4.165					6
		CZ PH	E A 124		3	3.207	39.84			28.72	0
ATOM	. 978					7.880			5 1.00	30.19	6
ATOM	979		IE A 124							32.10	
	980	O PH	IE A 124		3	8.427					
ATOM			N A 125		7	37.545	36.66	3 60.69		32.16	
ATOM	981		N W 14-							30.10	6
ATCM	982	CA AS	N A 125	1		37.731				32.02	
	983	CB AS	N A 125	,	3	8.247					c
ATOM			N A 125			8.28		0 57.19		33.79	
ATOM	984									3185	. 8
ATOM	985	OD1 AS	SN A 125)		38.75				30.51	
	986	אם צרוע	SN A 12	5		37.79(8 56:60			_
ATOM			TAT 3 12			36.40		3 58.58	-	29.80	
ATOM	987	C AS	5N A 12	.						27.24	8
ATOM	988	O AS	SN A 12	•		35.62				28.25	
	989	N PI	RO A 12	5		36.13					· _
ATCM		71 51	20 2 12			36.99			3 1.00	29.22	2 6
ATOM	990	CD PI	RO A 12	,	•			•			

83/263

ATOM	991	CA	PRO A	126	34	. 909	38.891	57.844	1.00 27.92	6
	992	CB	PRO A		35	.139	40.407	57.856	1.00 29.07	6
MOTA		CG	PRO A			. 649	40.520	57.775	1.00 26.54	ő
ATOM	993					.651	38.339	56.448	1.00 27.54	6
MOTA	994	C	PRO A			.532	38.402	55.949	1.00 28.66	8
MOTA	995	0	PRO A					55.820	1.00 26.99	7
MOTA	996	N	ALA A			. 687	37.795		1.00 26.54	6
ATOM	997	CA	ALA A			.548	37.244	54.477		
ATOM	998	CB	ALA A	127	36	. 822	37.505	53.684	1.00 22.43	5
MOTA	999	С	ALA A		35	. 225	35.744	54.480	1.00 27.38	6
	1000	ō	ALA A		35	.038	35.140	53.423	1.00 29.04	8
ATOM	1001	N	GLY A			.166	35.142	55.663	.1.00 26.97	7
MOTA		CA	GLY A			.874	33.724	55.737	1.00 25.65	6
MOTA	1002		GLY A			.389	33.486	55.880	1.00 26.17	6
MOTA	1003	C				.600	34.428	55.804	1.00 27.39	8
MOTA	1004	0	GLY A			.998	32.234	56.083	1.00 23.87	7
MOTA	1005	N	GLY A					56.236	1.00 25.17	5
ATOM	1006	CA	GLY A	129		.588	31.936		1.00 25.88	6
ATOM	1007	С	GLY A			.847	31.674	54.937		8
MOTA	1008	0	GLY A	129		.643	31.908	54.848	1.00 25.07	
ATOM	1009	N	MET A			.566	31.198	53.927	1.00 25.69	7
ATOM	1010	CA	MET A	130		.981	30.872	52.622	1.00 26.48	6
ATOM	1011	CB	MET A		32	.103	30.907	51.567	1.00 28.53	6
MOTA	1012	CG	MET A		32	.795	32.288	51.467	1.00 26.54	6
	1013	SD	MET A		34	.413	32.366	50.613	1.00 26.29	16
MOTA	1014	CE	MET A			.080	31.512	49.062	1.00 25.85	6
ATOM		C	MET A			.355	29.463	52.768	1.00 24.47	5
MOTA	1015		MET A			.761	28.502	52.113	1.00 17.67	8
MOTA	1016	0				.347	29.389	53.636	1.00 23.28	7
MOTA	1017	N	HIS A			.647	28.161	54.019	1.00 26.33	5
ATOM	1018	CA	HIS A				28.485	55.180	1.00 26.98	6
MOTA	1019	CB	HIS A			. 685	29.540	54.862	1.00 28.50	6
ATOM	1020	CG	HIS A			. 663		53.677	1.00 28.65	6
ATOM	1021		HIS A			.225	30.030		1.00 23.03	7
ATOM	1022		HIS A			.906	30.166	55.831		6
MOTA	1023	CEl	HIS A	131		.051	30.995	55.259	1.00 27.75	7
MOTA	1024	NE2	HIS A	131		.224	30.932	53.952	1.00 26.97	
ATOM	1025	С	HIS A	131	. 27	7.917	27.284	53.017	1.00 28.44	6
MOTA	1026	0	HIS A	131	. 27	1.434	26.214	53.390	1.00 31.15	.3
ATOM	1027	N	HIS A		27	7.861	27.694	51.756	1.00 30.64	7
ATOM	1028	CA	HIS A		27	7.111	26.938	50.746	1.00 28.71	6
ATOM	1029	CB	HIS A			5.321	27.941	49.890	1.00 27.21	6
ATOM	1030	CG	HIS A			.408	28.819	50.693	1.00 28.83	6
	1030		HIS A			5.111	30.137	50.578	1.00 28.92	6
MOTA	1032	NID1	HIS A	132		1.686	28.360	51.773	1.00 31.80	7
ATOM	1032	1457	. HIS A	132		3.981	29.353	52.285	1.00 29.95	6
ATOM			HIS A			1.222	30.443	51.579	1.00 28.21	7
MOTA	1034		A SIH	122		7.889	25.970	49.851	1.00 28.51	6
MOTA	1035	C			ž.	7 300	. 24.375	49.533	1.00 23.44	8
ATOM	1036	0	HIS A	132			26.379	49.455	1.00 27.94	7
ATOM	1037	N	ALA A			9.093		48.579	1.00 26.99	6
ATOM	1038	CA	ALA A			9.958	25.386		1.00 21.87	6
ATOM	1039	CB	ALA A			1.295	26.303	48.392	1.00 26.69	6
ATOM	1040	C	ALA A			0.199	24.164	49.078		
ATOM	1041	0	ALA A	133		0.703	23.973	50.182	1.00 28.25	8
MOTA	1042	N	PHE A		2:	9.850	23.174	48.255	1.00 26.73	7
ATOM	1043	CA	PHE A	134	31	0.046	21.773	48.615	1.00 25.04	6
ATOM	1044	CB	PHE A		2:	9.070	20.855	47.875	1.00 19.20	6
ATOM	1045	CG	PHE A		2	7.629	21.199	48.100	1.00 15.75	6
	1046		L PHE A			6.929	21.960	47.169	1.00 14.83	6
MOTA	1040	CD.	PHE A	134		6.985	20.814	49.273	1.00 14.03	6
ATOM			PHE A			5.614	22.336		1.00 14.84	6
MOTA	1048					5.670				6
ATOM	1049		2 PHE A	134		4.985				6
ATOM	1050	CZ	PHE A							6
ATOM	1051	C	PHE 3	1 1 2 4		1.460				8
ATOM	1052	0	PHE A			2.291				7
ATOM	1053	N	LYS ?			1.713				6
ATOM	1054	CA	LYS ?			3.012				6 .
ATCM	1055	CB		135		2.923				6
ATOM	1056		LYS A	A 135	3	4.152	17.131	48.638	1.00 32.46	
			•	•						•

						0.55	15 774	4.0	.221	1.00	20 67	6
ATOM	1057	CD :	LYS A 1	135		.965	15.734					
ATOM	1058	CE:	LYS A C	135	.34	.234	15.703	3 50.	.716	1.00		6
	1059		LYS A			. 679	15.973	3 51.	.001	1.00	26.25	7
ATOM							19.516		.993	1.00	30.22	6
ATOM	1060		LYS A			.513						8
ATOM	1061	0	LYS A	135	34	.714	19.672		.763	1.00		
	1062		SER A		32	.600	19.434	4 46	.028	1.00		7
ATOM						.995	19.489		.619	1.00	32.88	6
ATOM	1063		SER A							1.00		6
MOTA	1064	CB	SER A	136	33	.038	18.07		.040			
	1065	OG	SER A	136	33	.882	17.243	1 44	.810	1.00		8
ATOM						. 097	20.34	7 43	.727	1.00	33.55	6
ATOM .	1066		SER A						.553		36.11	8
ATOM	1067		SER A			.921	20.03	-				7
ATOM	1068	N	ARG A	137	31	.536	21.42		.262	1.00	30.61	
			ARG A		3.0	. 564	22.27	2 43	. 459	1.00	32.28	·6
MOTA	1069					.324	21.55		.202	1.00	35.91	б
ATOM ·	1070		ARG A						.627		43.90	6
ATOM	1071		ARG A			.224	22.45	-				6
ATOM	1072	CD	ARG A	137	26	.819	21.83		.751		48.28	
			ARG A		26	.571	20.76	7 41	.787	1.00	53.38	7
MOTA	1073		ANG A	137		.150	20.96		.538	1.00	55:30	6
ATOM	1074		ARG A					-			54.06	7
ATOM	1075	NH1	ARG A	137		.921	22.18	_	.090			
ATOM	1076	NH2	ARG A	137	25	.969	19.92	2 39	.728		58.96	7
			ARG A		3.0	.405	23.63	1 44	.113	1.00	30.24	6
ATOM	1077	C					23.74		.338	1.00	23.11	8
MOTA	1078	0	ARG A			.380	23.74				27.33	7
ATOM	1079	N	ALA A	138	30	.219	24.65		.279			
	1080	CA	ALA A		29	.944	26.00	0 43	.757	1.00	27.36	6
MOTA						.149	26.99	7 42	.645	1.00	27.57	6
MOTA	1081	CB	ALA A				26.00		.213	1 00	26.45	6
ATOM	1082	С	ALA A			.496					27.30	8
MOTA	1083	0	ALA A	138	27	.747	25.08		.865			
	1084	13	ASN A		2.8	0.090	27.02	1 44	1.975		22.47	7
MOTA			ASN A			.711	27.06	3 45	.471	1.00	23.85	6
ATOM	1085	CA					25.73	-	.218		16.82	6
MOTA	1086	CB	ASN A			.406					14.45	6
MOTA	1087	CG	ASN A	139	25	.040	25.71		5.900			
	1088		ASN A		24	1.019	26.08	34 46	5.319		13.39	8
ATOM		ODI	ת אכת	120		.018	25.24		3.139	1.00	20.08	7
MOTA	1089	NDZ	ASN A	139					5.368		26.09	6
MOTA	1090	С	ASN A	139 ·		5.444	28.27	_				8
ATOM	1091	0	ASN A	139	27	7.239	28.60	00 47	7.260		27.50	
	1092	Ŋ	GLY A	140	25	3.326	28.99	54 46	5.114	1.00	24.83	7
MOTA			GLY A			1.965	30.10	16 46	5.916	1.00	22.24	6
ATOM	1093	CA					31.21		6.890		22.35	6
ATOM	1094	С	GLY A		2:	5.991					23.50	8
MOTA	1095	0	GLY A	140		5.256	31.84		7.910			7
ATOM	1096	N	PHE A		2 (5.570	31.43	37 4:	5.717		25.60	
			PHE A			7.582	32.47	76 45	5.518	1.00	26.47	6
ATOM	1097	CA				7.204	33.70		6.258	1.00	28.05	6
MOTA	1098	CB	PHE A								28.61	6
MOTA	1099	CG	PHE A	141		5.925	34.39		5.792			6
ATOM	1100	ັດກາ	PHE A	141	- 2	5.352	35.42		6.518		30.74	
					2	5.312	33.9	75 4	4.620	1.00	29.10	6
atom	1101	CD2				4.193	36.0		6.087		29.33	6
MC A	1102	CEl	PHE A	141					4.177		31.03	6
AndOM.	1103	CE2	PHE A	141		4.150					32.50	6
ATCM	1104	CZ	PHE A	141	2	3.589	35.6		4.912		32.59	
		C	PHE A		2	8.954	32.0	38 4	5.991		24.63	6
ATOM	1105					9.938			5.733	1.00	29.72	8
ATOM	1106	0	PHE A						6.667		21.11	7
MOTA	1107	N	CYS A	142		9.025				1.00	22.30	6
ATOM	1108	CA	CYS A	142	3	0.296	30.3		7.192			
			CYS A		3	0.062	29.7	87 4	8.567	1.00	21.31	6
MOTA	1109	CB							9.582		22.93	16
MOTA	1110	SG	CYS A			8.943					22.13	6
ATOM	1111	C	CYS A	142		1.017			6.326			8
	1112	5	CYS A		3	0.408	28.3		5.878		22.97	
ATOM			TYR A			2.317			6.111		23.09	7
ATOM	1113	.7				3.129			5.335		23.05	6
MOTA	1114	CA	TYR A						4.375		21.60	٠ 6
MOTA	1115	CB	TYR A	143	3	4.063	29.3					6
	1116	CG	TYR A		3	3.377	30.3		13.487		24.09	0
ATOM				143		2.969			3.999	1.00	23-29	6
ATOM	1117	CDI				2.365			13.199		23.26	6
ATOM	1118	ÇE:								_	22.52	
ATOM	1119	ĊD2	TYR A	143		3.154	30.1		12.135			
	1120	CE			3	2.544	31.0		11.317	_	0 24.82	
ATOM			TYR A			2.15			11.85	7 1.0	0 27.55	
ATCM	1121	CZ	IIK A	142					11.064		0 32.35	. 8
ATOM	1122	OH	TYR A	143	2	1.553					•	

			33.960	27.766	46.290	1.00 24.22	6
MOTA	1123	C TYR A 143		26.606	45.998	1.00 24.58	8
ATOM	1124	O TYR A 143	34.266			1.00 23.83	7
ATOM .	1125	N ILE A 144	34.327			1.00 23.03	
		CA ILE A 144	35.086	27.566	48.425	1.00 20.24	6
ATOM			36.547	27.982	48.453	1.00 17.27	6
MOTA			37.231	27.354	49.662	1.00 11.03	6
MOTA	1128	CG2 ILE A 144			47.110	1.00 14.93	6
ATOM	1129	CG1 ILE A 144	37.185	27.603		1.00 19.68	6
ATOM		CD1 ILE A 144	38.601	28.028	46.946		
		C ILE A 144	34.495	27.703	49.815	1.00 21.77	6
ATCM			34.288	28.811	50.318	1.00 21.19	8
ATOM	1132		. 34.212	26.555	50.424	1.00 23.00	7
ATOM		N ASN A 145			51.750	1.00 20.92	6.
ATOM	1134	CA ASN A 145	33.616	26.508		1.00 17.08	6
MOTA	1135	CB ASN A 145	32.902	25.170	51.935		
	1136	CG ASN A 145	32.079	25.125	53.203	1.00 21.04	6
MOTA		OD1 ASN A 145	32.549	25.508	54.276	1.00 20.97	8
MOTA	1137	ND2 ASN A 145	30.844	24.640	53.093	1.00 20.93	7
ATOM	1138	NUZ ASN A 145	34.706	26.669	52.806	1.00 19.68	6
MOTA	1139	C ASN A 145			53.351	1.00 20.64	8
MOTA	1140	O ASN A 145	35.201	25.679		1.00 16.28	7
MOTA	1141	N ASN A 146	35.079	27.911	53.100		6
	1142	CA ASN A 146	36.123	28.143	54.088	1.00 19.34	
ATOM	1143	CB ASN A 146	36.428	29.651	54.207	1.00 20.27	6
MOTA			35.292	30.444	54.795	1.00 18.05	6
MOTA	1144		35.079	30.421	55.999	1.00 25.83	8
MOTA	1145	OD1 ASN A 146			53.948	1.00 16.04	7
MOTA	1146	ND2 ASN A 146	34.552	31.149		1.00 20.48	6
MOTA	1147	C ASN A 146	35.775	27.504	55.443	1.00 20.40	8
ATOM	1148	C ASN A 146	36.663	27.027	56.151	1.00 19.88	
		N PRO A 147	34.482	27.485	55.819	1.00 19.38	7
ATOM	1149		33.312	28.068	55.135	1.00 17.48	6
ATOM	1150		34.058	26.877	57.087	1.00 22.25	6
ATOM	1151	CA PRO A 147		27.065	57.057	1.00 20.15	6
ATOM	1152	CB PRO A 147	32.539			1.00 20.81	6
ATOM	1153	CG PRO A 147	32.407	28.378	56.305		6
ATOM	1154	C PRO A 147	34.443	25.383	57.188	1.00 26.89	
	1155	O PRO A 147	35.066	24.954.	58.169	1.00 29.10	8
ATOM			34.070	24.596	56.176	1.00 25.88	7
ATOM	1156	N ALA A 148	34.372	23.164	56.174	1.00 25.47	6
MOTA	1157	CA ALA A 148		22.468	55.009	1.00 21.84	6
ATOM	1158	CB ALA A 148	33.670		56.100	1.00 25.94	6
ATOM	1159	C ALA A 148	35.870	22.916		1.00 27.19	8
MOTA	1160	O ALA A 148	36.382	21.971	56.701	1.00 27.13	7
ATOM	1161	N VAL A 149	36.574	23.756	55.349	1.00 26.11	
	1162	CA VAL A 149	38.017	23.609	55.233	1.00 24.04	6
MOTA			38.622	24.663	54.267	1.00 26.16	6
ATOM	1163		40.135	24.476	54.158	1.00 25.36	6
MOTA	1164	CG1 VAL A 149			52.886	1.00 26.81	6
MOTA	1165	CG2 VAL A 149	37.970		56.640	1.00 23.57	6
MOTA	1166	C VAL A 149	38.516			1.00 19.75	8
ATOM	1167	O VAL A 149	39.453		57.122	1.00 13.73	7
MOTA	1168	N GLY A 150	37.850	24.815	57.299	1.00 22.20	
	1169	CA GLY A 150	38.210	25.175	58.654	1.00 25.43	6
MOTA			38.130		59.568	1.00 27.19	6
ATOM .		C GLY A 150	39.112		60.221	1.00 27.05	8
MOTA	1171	O GLY A 150					7
ATOM	1172	N ILE A 151	36.959			·	6
ATOM	1173	CA ILE A 151	36.775	22.176			6
ATOM	1174	CB ILE A 151	35.317				
		CG2 ILE A 151	35.251	20.215	60.869	1.00 26.02	6
MOTA	1175		34.394			1.00 33.31	6
MOTA	1176	CG1 ILE A 151	34.255				6
MOTA	1177	CD1 ILE A 151					6
ATOM	1178	C ILE A 151	37.723	21.039			8
ATOM	1179	0 ILE A 151	38.340	20.420	60.947		7
	1180	N GLU A 152	37.843	20.769	58.778		
ATOM			38.704				6
MOTA	1181	CA GLU A 152	38.57				6
ATCM	1182	CB GLU A 152	-				6
ATOM	1183	CG GLU A 152	37.269				6
MOTA	1184	CD GLU A 152	37.120			-	8
	1185	OE1 GLU A 152	36.08				0
ATOM	1186	OE2 GLU A 152	38.03	0 16.992			8
atom			40.14			1.00 32.97	6
ATOM	1187		40.87				8
T TON	1188	O GLU A 152	40.07	- 10.74		-	

	1189	N1	TYR	. 1	5.3	40	. 541	21.170	58.765	1.00	33.90	7
ATOM		N							59.193	1.00		6
ATOM	1190	CA	TYR			-	. 875	21.563				
ATOM	1191	CB	TYR	A 1	.53	42	.019	23.074	59.058	1.00		6
ATOM	1192	CG	TYR	1 د	53	43	. 280	23.667	59.639	1.00	38.03	6
							498	23.611	58.948	1.00		6
ATOM	1193		TYR									
ATOM	1194	CEl	TYR	A 1	.53 .	45	. 658	24.207	59.475	1.00		6
ATOM	1195	CD2	TYR	A 1	53	43	. 250	24.321	60.869	1.00	37.19	6
	1196		TYR			44	. 387	24.913	61.401	1.00	41.09	6
ATOM										1.00		6
ATOM	1197	CZ	TYR				. 587	24.860	60.704			
ATOM	1198	OH	TYR	A 3	53	46	. 696	25.480	61.241	1.00		8
ATOM	1199	С	TYR	A 1	53	41	.919	21.168	60.667	1.00	32.59	6
	•		TYR				.867	20.518	61.120	1.00	32.24	8
ATOM	1200								_	1.00		7
MCTA	1201	N	LEU				.869	21.556	61.397			
MOTA	1202	CA	LEU	A: 1	154	40	.730	21.261	62.823	1.00		6
ATOM	1203	CB	LEU	A 1	154	39	. 443	21.889	63.378	1.00	28.60	6
			LEU				.399	23.407	63.618	1.00		6 -
ATOM	1204	CG								1.00		6
MOTA	1205		LEU				.991	23.833	64.041			
ATOM	1206	CD2	LEU	A 1	154	40	.418	23.787	64.691	1.00	24.95	6
ATOM	1207	С	LEU	A 1	154	40	.732	19.772	63.146	1.00	29.56	6
			LEU				. 223	19.363	64.196	1.00	28.36	8
ATOM	1208	0								1.00		7
MOTA	1209	N	ARG				.174	18.958	62.256			
ATOM	1210	CA	ARG	A I	l55	40	.134	17.522	62.499	1.00	33.00	6
ATOM	1211	CB	ARG	2 1	155	39	.127	16.847	61.561	1.00	33.13	6
			ARG				.708	17.368	61.769		32.84	6
ATOM	1212.											6
MOTA	1213	CD	ARG				. 678	16.719	60.863		32.92	
MOTA	1214	NE	ARG	A 3	155	36	.152	15.451	61.363		33.98	7
	1215	CZ	ARG			35	.195	14.760	60.741	1.00	37.93	6
ATOM							.671	15.216	59.605		38.39	· 7
MOTA	1216	NH1	ARG									7
ATOM	1217	NH2	ARG	A :	155		.732	13.631	61.259		38.67	
ATOM	1218	С	ARG	A 3	155	41	.521	16.929	62.331	1.00	33.97	6
	1219	0	ARG	Δ.	155	41	.869	15.941	62.985	1.00	32.95	8
MOTA			LYS				.318	17.548	61.467	1 00	34.20	7
ATOM	1220	N									36.32	6
MCTA	1221	CA	LYS	Α.	156		. 679	17.081	61.243			
ATCM	1222	CB	LYS	A :	156	44	.249	17.662	59.942	1.00	37.57	6
ATOM	1223	CG	LYS	Α .	156	45	. 673	17.187	59.638	1.00	40.32	6
	1224		LYS				.116	17.532	58.220	1.00	40.33	6
ATOM		CD							57.184		41.27	6
ATOM	1225	CE	LYS				.180	16.909				
ATCM	1226	NZ	LYS	A :	156	45	.015	15.435	. 57.364		37.92	7
ATOM	1227	· C	LYS	Α .	156	44	.539	17.501	62.428	1.00	36.17	6
	1228		LYS				.582	16.905	62.699	1.00	34.53	8
ATOM		0							63.132		36.71	7
ACOM	1229	N	LYS				.093	18.537				
ATOM	1230	CA	LYS	A :	157	44	.820	19.026	64.294		37.09	6
ATOM	1231	CB	LYS	Α :	157	44	.495	20.501	64.566	1.00	37.02	6
			LYS				.982	21.435	63.477	1.00	36.22	6
ATOM	1232	CG						21.231	63.239		37.91	6
ATOM	1233	CD	LYS				.468					6
ATOM	1234	Œ	LYS	A :	157	46	.993		62.107		39.35	_
ATOM	1235	.JZ	LYS	A :	157	48	.434	21.815	61.842		38.78	7
	1236		LYS				.498	18.178	65.515	1.00	35.61	6
ATOM		-						18.232	66.518		36.38	8
ATOM	1237	0	LYS				.204					ž
ATOM	1238	N	GLY	Α :	158	43	.433	17.392	65.431	.1.00		
ATOM	1239	CA	GLY	A :	158	43	.097	16.537	66.552	1.00	38.08	6
	1240	· c	GLY				.782	16.781	67.267	1.00	38.78	6
ATOM							.460	16.053	68.208		41.07	8
ATOM	1241	0	GLY									7
ATOM	1242	N	PHE	Α :	159		.023	17.791	66.855		36.75	
ATOM	1243	CA	PHE			39	.743	18.046	67.505		33.83	6
		CB	PHE				.246	19.459	67.213	1.00	32.65	6
ATOM	1244							20.521	67.787		29.97	6
ATOM	1245	CG	PHE				.115					6
ATOM	1246	CD1	PHE	À :	159		.404	20.724	67.297		30.20	
ATOM	1247	CD2	PHE	A :	159	39	.672	21.289	68.853		29.28	6
		CE1					.241	21.680	67.862	1.00	28.96	6
ATOM	1248							22.246	69.428		29.67	5
ATOM	1249	CE2	PHE				.498					. 6
ATCM	1250	CZ	PHE			41	.785	22.442	68.931		30.59	
ATOM	1251	С	PHE			38	.732	. 17.026	67.025		33.41	6
			PHE				.664	16.716	65.838	1.00	31.61	8
ATOM	1252	0					.951	16.506	67.966		35.13	7
ATOM	1253	N	LYS									
ATOM ATOM	1253 1254	N CA	LYS LYS				.947	15.493	67.677		35.39	. 6

				I	. 15	gui _c e 17-2					
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283	LY: LY: LY: LY: LY: LY: LY: LY:	S S S S S S S S S G G G G G G G G G G G	60 60 60 60 60 60 61 61 61 61 61 161 161		37.342 38.535 39.312 38.425 37.593 35.524 34.561 35.399 34.912 33.427 33.427 33.427 33.719 34.912 35.372 35.648 34.113 34.468 33.741 33.735 34.4580 35.801 36.537 32.081 30.754 30.236 28.934 27.804	141 131 121 151 151 161 161 161 161 161 161 161 16	.198 .502 .538 .538 .538 .536 .1827 .058 .5.231 .5.233 .5.342 .5.	68.389 67.708 68.615 69.345 70.411 68.027 68.718 69.044 70.535 73.121 74.616 68.357 67.373 73.121 74.616 68.357 67.373 65.362 64.784 65.522 64.784 65.560 66.745 66.617 67.992 68.0326 69.493	1.00 36.43 1.00 40.67 1.00 44.68 1.00 49.23 1.00 50.63 1.00 35.72 1.00 34.35 1.00 34.95 1.00 38.25 1.00 47.64 1.00 47.64 1.00 47.56 1.00 46.95 1.00 33.77 1.00 31.74 1.00 29.83 1.00 29.96 1.00 30.57 1.00 30.57 1.00 29.83 1.00 29.96 1.00 30.57 1.00 30.57 1.00 33.05 1.00 30.57 1.00 30.57 1.00 30.48 1.00 30.48 1.00 30.48 1.00 31.58 1.00 31.58 1.00 25.00	65667687666676777687666668766666
		CD1 L	EU A	163		27.804					
ATOM	1286	CD2 L	EU A	163		28.569 30.717		4.502	65.659	1.00 29.23	6
MOTA	1287		EU A EU A			30.717		4.980	65.654	1.00 29.72	8
MOTA MOTA	1288 1289	N T	YR A	164		29.675	2	24.157	64.846	1.00 29.68 1.00 29.89	7 6
MOTA	1290	CA T	YR A	164		29.500 29.512		25.244 24.688	63.899 62.470	1.00 27.81	6
MOTA	1291 1292	CB T	YR A YR A	164		29.312	:	25.742	61.399	1.00 27.79	6
ATOM ATOM	1292	CD1 T	YR A	164		30.390		26.670	61.168	1.00 24.82 1.00 24.51	6 6
MOTA	1294		YR A	164		30.247 28.216		27.655 25.827	60.198 60.631	1.00 27.61	6
ATOM	1295 1296	CD2 T	YR A	164		28.065		26.808	59.662	1.00 25.67	6
MOTA MOTA	1297	CZ T	YR A	164		29.078	3	27.718	59.451 58.506	1.00 25.63 1.00 27.10	6 8
MOTA	1298		YR A	164		28.898		28.704 25.90 <mark>7</mark>	64.218	1.00 28.38	6
MOTA MOTA	1299 1300	C T	YR A	164		27.119	•	25.225	64.277	1.00 29.43	8 7
ATOM	1301	:1 I	LE A	165		28.166		27.217		1.00 24.30 1.00 22.93	6
ATOM	1302		LE A			26.941 26.985	_	27.969 28.649		1.00 22.00	6
MOTA MOTA	1303 1304	CB I	LE A	165		25.76		29 ⁻ .559	66.312		6 6
ATOM	1305	CG1 3	LE A	165		27.033		27.567			6
MOTA	1306		ILE A	165		27.185 26.78		28.101 29.010	63.657	1.00 24.45	6
MOTA MOTA	1307 1308	0 I	ILE A	165		27.60		29.921	63.506	1.00 23.17	8 7
MOTA	1309	N 3	ASP A	166		25.70		28.871 29.726		1.00 24.20	6
ATOM	1310		SP A	166		25.47 25.31		28.809		1.00 17.64	6
ATOM	1311 1312	CB 2	asp a Asp a	166		25.41		29.529	59.256	1.00 19.93	6 8
MOTA MOTA	1313	OD1 2	ASP A	166		24.53		30.391			8
MOTA	1314		ASP A ASP A	166		26.36 24.29		30.57	_	1.00 22.79	6
ATOM	1315 1316	5 .	ASP A	166		23.13	4	30.25	61.82	5 1.00 22.70	8 7
ATOM ATOM	1317	N	LEU A	167		24.58		31.95	2 62.08! 4 62.25		6
ATOM		CA :	LEU A	167		23.53 23.96		32.95		1.00 26.65	6
MOTA MOTA		CB (LEU A	167		24.36		33.46			6
	-										

ATOM	1321	CD1 I	LEU A	167			741	34.647 32.661	65.55 65.30		1.00 2 1.00 2		6 6
MOTA		CD2 I	LEU A	167			225 162	33.660	60.95	1 1	1.00 2	6.37	6
MOTA			LEU A				386	34.613	60.97	1 1	1.00 2	5.95	8
MOTA	1324 1325	N A	ASP A	168			726	33.208	59.82		1.00 2		7
ATOM-	1326	CA A	ASP A	168			410	33.787	58.52		1.00 2		6 6
ATOM	1327	CB Z	ASP A	168			057	32.987	57.39	•	1.00 3 1.00 3		6
ATOM	1328	CG 2	ASP A	168			937	33.676	56.03 55.65		1.00 3		8
MOTA	1329	OD1	ASP A	·168 ·			892	34.388 33.531	55.36		1.00		8
MOTA	1330		ASP A				. 893 . 906	33.614	58.40		1.00 2		6
MOTA	1331		ASP A ASP A				.354		58.94	18	1.00 2		8
MOTA MOTA	1332 1333		ALA A				. 239	34.524	57.71		1.00 2		7
ATOM	1334	CA .	ALA A	169			.793	34.415	57.5		1.00 2		6 6
ATOM	1335	CB	ALA A	169			. 233	35.640	56.8° 56.8°		1.00	24.37	6 -
ATOM	1336	C	ALA A	169			.420 .266	33.157 32.752	56.8		1.00	22.34	8
MOTA	1337	0	ALA A HIS A	170			.405	32.542		56	1.00	25.78	7
MOTA	1338 1339	N CA	HIS A	170			.180	31.327	55.3	75	1.00	25.20	6
MOTA MOTA	1340		HIS A				.667	31.501	_		1.00	25.76	6 6
ATOM	1341	CG	HIS A	170			.122	32.711			1.00	29.08 36.59	6
ATOM	1342	CD2	HIS A	170		19	:338	32.834 33.995			1.00	30.77	7
MOTA	1343	ND1	HIS A	170			.384 .784	34.858	N	73 .	1.00	29.07	6
ATOM	1344	CEI	HIS A	170			.143	34.180			1.00	32.19	7
ATOM	1345 1346	C	HIS A	170			.895	30.113			1.00	26.00	6
MOTA MOTA	1347	ō	HIS A	170			.913	30.234			1.00	25.76 27.29	8 7
ATOM	1348	N	HIS A	171			.349	28.939			3 00	25.01	6
MOTA	1349	CA	HIS A	171			.893	27.655 26.532				24.93	6
MOTA	1350	CB	HIS A		٠		.468	25.148			1.00	26.56	6
MOTA MOTA	1351 1352	CG CD2	HIS A			20	.674	24.123			1.00	22.34	6 7
MOTA	1353	ND1	HIS A	171			.823	24.678			1.00	25.35 22.68	6
MOTA	1354	CE1	HIS A	171			222	23.424			1.00		7
MOTA	1355		HIS A	3 1/1			2.267	27.41			1.00	24.74	6
ATOM	1356 1357	С 0	HIS A				.540	27.86	3 54.3			28.22	8
MOTA MOTA	1358	N		172		23	3.131	26.70				23.03 23.41	7 6
ATOM	1359	CA	CYS 2	172			1.467	26.38 26.47			1.00	19.31	6
MOTA	1360	CB	CYS A	A 172			5.497 5.005	25.63			1.00	16.78	16
MOTA	1361	SG	CYS	A 172 A 172			4.484	24.99	7 55.0	048		25.45	6
MOTA MOTA	1362 1363	C 0		A 172			5.203	24.09				24.47	8 7
ATOM	1364	N	ASP A	A 173			3.664	24.83			1.00	26.67 26.47	6
ATOM	1365	CA	ASP .	A 173			3.542	23.59 23.85				26.33	6
ATOM	1366	CB	ASP .	A 173			2.735 3.281	25.03			1.00	27.06	6
MOTA	1367	CG	ASP .	A 1'3			2.539		8 50.		1.00	23.43	8
MOTA MOTA	1368 1369	OD2	ASP	A 173			4.454	25.41	7 51.		1.00	29.38	8 6
ATOM	1370	C	ASP .	A 173			4.872					26.65 28.38	8
ATOM	1371	0	ASP	A 173			4.940			784 [.] 793	1.00	25.24	7
MOTA	1372	N		A 174			5.926 7.227			447	1.00	23.11	6
ATOM	1373	CA		A 174 A 174			7.896		5 53.	612		25.64	6
MOTA MOTA	1374 1375	С 0		A 174			8.443	21.40	8 53.	462		27.67	8 7
ATOM	1376	N	VAL	A 175			7.848			778		24.29 22 <i>-</i> 20	6
MOTA	137,7	CA	VAL	ሕ 175			8.459			989 101		20.15	6
ATOM	1378	CB	VAL	3 175			8.536 9.449			218	1.00	20.11	6
MOTA	1379	CG1	. VAL	A 175 A 175			9.015		39 56.	530	1.00	18.74	6
MOTA	1380 1381	C	VAL	A 175			7.647	7 21.40	9 56.	505	1.00	22.85	6 8
ATCM ATOM	1382		VAL	A 175		2	8.17	20.5		173		0°20.07 0°24.12	
ATOM	1383	N	GLN	A 176			6.35			. 203 . 629		0 27.18	
ATOM	1384		GLN	A 176			5.518 4.04			. 355	_	0 32.86	. 6
MOTA	1385	_	GLN	A 176 A 176			3 . 08			.726		0 36.04	
ATOM	1386		. GTIA						-		•		

MOTA	1387	co (GLN A	176	21.			862	56.537 57.185		00 38		6 8
ATOM	1388		GLN A		21.			782	55.649		00 38		7
MOTA	1389	-	GLN A			934		151 .083	55.841		.00 2		6
MOTA	1390		GLN A			956			56.416		.00 2		8
ATOM	1391	.0	GLN A	176		326		.066 .194	54.519		.00 2		7
MOTA	1392		GLU A			951		.062	53.698		1.00 3		6
MOTA	1393		GLU A			343			52.220		.00 3		6
MOTA	1394		GLU A			395	10.	. 460 . 256	51.28		1.00 3		6
ATOM	1395		GLU A			353		.626	49.81		1.00 4		6
ATOM	1396		GLU A			273		.967	49.23		1.00 4		8
MOTA	1397		GLU A			322		.590	49.25		1.00 3	9.39	8
MOTA	1398		GLU A			.155 .702		.516	54.13		1.00 3		6
ATOM	1399	C	GLU A			. 868		.317	54.35		1.00 3		8
MOTA	1400	0	GLU A			. 663		.419	54.28		1.00 3	3.39	7
MOTA	1401	N	ALA A			.026		.072	54.67		1.00 3	1.63	6
MOTA	1402	CA	ALA A	178		.830		.338	54.85		1.00 3		6
ATOM	1403	CB	ALA A	170		. 204		.185	55.89	7	1.00 3		6
MOTA	1404	C	ALA A			.032		.276	55.87	6	1.00 2	7.95	8
MOTA	1405	0	ALA A PHE A			.444		.444	56.96		1.00 3		7
MOTA	1406	И	PHE A	179		.590		.656	58.18	4	1.00 3		6
MOTA	1407	CA CB	PHE A			:147		.532	59.31		1.00 3	30.13	6
MOTA	1408	CG	PHE A			.189	18	.505	58.85	8	1.00	27.78	6
MOTA	1409 1410		PHE A			.827		.790	58.46		1.00 2	28.24	6
MOTA	1411		PHE A		32	.522	18	.124	58.76		1.00 2		6
ATOM	1412	CE1	PHE A	179	31	.778	20	.688	57.98		1.00		6
MOTA	1413	CE2	PHE A			.487	19	.013	58.28		1.00		6
ATOM MOTA	1414	CZ	PHE A	179	33	.111		.300	57.89		1.00	28.67	6
ATOM	1415	c	PHE A		28	.300		5.003	58.66		1.00	32.06	6 8
MOTA	1416	ō	PHE A			.218		.542	59.80		1.00		7
ATOM	1417	N	TYR A	180		.305		.960	57.78		1.00	30 60	6
MOTA	1418	CA	TYR A			.001		5.377	58.09		1.00	30.00	6
MOTA	1419	CB	TYR A	180		.062		5.605	56.93 57.23		1.00	37.91	6
ATOM	1420	CG		180		.593		3:453	57.0			35.83	6
ATOM	1421	CD1				.938		4.232	57.3			39.20	6
MOTA	1422	CEl				589		4.103			1 00	37.56	6
ATOM	1423	CD2				.861		6.430	58.0		1.00	40.28	6
MOTA	1424	CE2	TYR A	180		518		5.211	57.8		1.00	41.92	6
MOTA	1425	CZ	TYR A	7 180		5.549		5.110	58.1		1.00	43.41	8
MOTA	1426	он	TYR A	4 180 4 180		5.133		3.884	58.3		1.00	40.28	6
MOTA	1427	C		4 180 4 180		5.158		3.192	58.6		1.00	39.27	8
ATOM	1428	0	115.7	A 181		7.363		3.402	58.3	19		43.51	7
ATOM	1429 1430	N CA	LCD A	4 181		7.638		1.994	5 8.5	19	1.00	45.89	6
ATOM	1431		ASP 3	A 181		3.414	1	1.487		03	1.00	51.00	6 .
ATOM	1432		ASP A	A 181	28	8.830	1	0.050	57.4			56.84	6
MOTA MOTA	1433		ASP		29	9.637		9.750	58.3		1.00	59.47	8
ATOM	1434	002	ASP A	A 181	2	8.348		9.221			1.00	60.73	8 6
ATOM	1435		ASP A	A 181		8.398		1.665				44.75 44.69	8
ATOM	1436		ASP A	A 181		8.257		0.568				41.26	7
ATOM	1437		THR .	A 182		9.194		2,606			1.00	39.51	6
ATOM	1438			A 182		9.975		2.337			1.00	39.19	6
ATOM	1439	CB		A 182		1.408		2.881			1.00	37.82	8
ATOM	1440	OG:	I THR			2.171		2.508				40.12	6
MOTA	1441	. CG		A 182		1.395		4.397				38.58	
MOTA	1442	. C		A 182		9.370	, ,	.2.910 .3.876			1.00	41.24	8
ATCM	1443	0		A 182		8.609					1.00	37.39	7
ATOM	1444			A 183		9.712		L2.304				39.24	
ATOM	1445			A 183		9.211		12.77				40.31	6
ATOM	1446			A 183		8.824	_	10.72				41.64	6
ATOM	1447		ASP	À 183		0.725		10.26	_		1.00	42.53	. 8
ATOM	1448		1 ASP	A 183		0.72	1	10.49			1.00	42.46	8
MOTA	1449		2 ASP	7 103 7 103		0.28		13.62				40.34	
ATCM	1450			A 183 A 183		0.10	9	14.07	_			42.07	
ATOM	145			A 184		1.40	0	13.83	0 65.	154	1.00	39.29	7
ATOM	1452	2 N	· GTM	A +0.	-				•				
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ATOM 1455 CG GLIN A 1864 34 .229 12.804 65.166 1.00 33.77 6 ATOM 1455 CG GLIN A 1864 34 .229 12.804 65.166 1.00 33.63 63 ATOM 1457 OEI GLIN A 1864 35.559 12.499 64.593 1.00 32.674 68 ATOM 1457 OEI GLIN A 1864 35.559 12.499 64.593 1.00 32.674 68 ATOM 1458 NEZ GLIN A 1864 35.559 12.499 64.593 1.00 31.17 68 ATOM 1459 C GLIN A 1864 32.222 16.110 65.403 1.00 36.42 68 ATOM 1460 N VAL A 185 31.329 16.372 64.456 1.00 37.41 88 ATOM 1461 N VAL A 185 31.329 16.372 64.456 1.00 37.41 88 ATOM 1462 CA VAL A 185 31.308 18.092 66.034 1.00 37.41 88 ATOM 1463 CB VAL A 185 31.308 18.052 62.641 1.00 33.03 68 ATOM 1465 CC VAL A 185 31.308 18.052 62.641 1.00 33.03 68 ATOM 1465 CC VAL A 185 32.773 17.738 62.331 1.00 29.27 68 ATOM 1466 C VAL A 185 32.773 17.738 62.357 1.00 34.58 68 ATOM 1466 C VAL A 185 32.773 17.738 62.357 1.00 34.58 68 ATOM 1467 O VAL A 185 28.680 17.124 64.038 1.00 31.71 68 ATOM 1469 CA PHE A 186 27.798 19.463 65.207 1.00 31.51 68 ATOM 1469 CA PHE A 186 27.524 19.552 66.166 1.00 31.59 68 ATOM 1470 CB PHE A 186 27.524 19.552 66.166 1.00 31.59 68 ATOM 1471 CG PHE A 186 25.552 18.901 66.153 1.00 30.98 710 710 710 710 710 710 710 710 710 710											
ATOM 1455 CG GLN À 184 34 229 12.804 65.166 1.00 33.677 6 ATOM 1455 CG GLN À 184 34 229 12.804 65.166 1.00 33.63 63 63 67 67 65 67 00 GLN À 184 34 229 12.804 65.166 1.00 33.63 63 63 64 67 00 GLN À 184 35.559 12.499 64.593 1.00 32.74 6 8 ATOM 1458 NEZ GLN À 184 36.490 11.999 65.436 1.00 36.58 7 6 ATOM 1459 C GLN À 184 36.490 11.999 65.436 1.00 36.42 64 ATOM 1460 O GLN À 184 32.803 16.994 66.034 1.00 37.41 8 ATOM 1461 N VAL À 185 31.329 16.372 64.456 1.00 37.41 8 ATOM 1462 CA VAL À 185 31.308 18.052 62.641 1.00 33.0 6 AZ 62 ATOM 1463 CB VAL À 185 31.308 18.052 62.641 1.00 33.0 6 AZ 62 ATOM 1465 CC VAL À 185 31.308 18.052 62.641 1.00 32.03 6 ATOM 1465 CC VAL À 185 32.773 17.738 62.351 1.00 29.27 6 ATOM 1466 C VAL À 185 32.773 17.738 62.351 1.00 29.27 6 ATOM 1467 O VAL À 185 29.508 17.972 64.456 1.00 31.51 6 ATOM 1467 O VAL À 185 29.508 17.972 64.456 1.00 31.51 6 ATOM 1467 O VAL À 185 29.508 17.972 64.450 1.00 31.51 6 ATOM 1467 O VAL À 185 29.508 17.972 64.450 1.00 31.51 6 ATOM 1467 O VAL À 185 28.680 17.124 64.038 1.00 31.71 6 ATOM 1467 O VAL À 185 28.680 17.124 64.038 1.00 31.71 6 ATOM 1470 CB PHE À 186 27.524 19.532 66.716 1.00 30.98 6 ATOM 1470 CB PHE À 186 27.524 19.532 66.716 1.00 30.98 6 ATOM 1471 CG PHE À 186 27.524 19.532 66.716 1.00 30.98 6 ATOM 1473 CD PHE À 186 25.5552 18.901 68.153 1.00 31.51 6 ATOM 1473 CD PHE À 186 25.5552 18.901 68.153 1.00 31.51 6 ATOM 1476 CZ PHE À 186 25.5552 18.901 68.178 64.751 1.00 33.28 6 ATOM 1477 C PHE À 186 22.191 18.951 66.378 1.00 33.84 ATOM 1478 CD PHE À 186 22.191 18.951 66.378 1.00 33.58 ATOM 1478 CD PHE À 186 22.191 18.951 66.377 10.00 33.54 ATOM 1478 CD PHE À 186 22.191 63.33 18.00 33.53 1.00 33.54 ATOM 1479 CD PHE À 186 22.191 63.33 18.00 33.54 ATOM 1489 CD CD PHE À 186 27.490 20.798 64.551 1.00 33.36 6.375 1.00 33.58 ATOM 1489 CD		4 4 5 3	C3 (- 1 N 1 -	101	32 50	6	14.635	65.671	1.00 37.08	6
ATOM 1455 CC DG GLN A 1864 35.599 12.896 46.593 1.00 32.74 6 ATOM 1457 ODD GLN A 1864 35.853 12.704 63.413 1.00 31.77 8 ATOM 1459 C GLN A 1864 36.490 11.999 65.436 1.00 31.79 8 ATOM 1459 C GLN A 1864 36.490 11.999 65.436 1.00 31.65.88 7 ATOM 1460 O GLN A 1864 32.822 16.110 65.403 1.00 36.58 7 ATOM 1461 N VAL A 185 31.329 16.372 64.456 1.00 33.14 7 ATOM 1461 N VAL A 185 31.329 16.372 64.456 1.00 33.14 8 ATOM 1462 CA VAL A 185 31.329 18.032 62.641 1.00 33.03 6.700 1463 CB VAL A 185 31.309 18.052 62.331 1.00 29.27 6 ATOM 1464 CGI VAL A 185 31.009 19.520 62.331 1.00 29.27 6 ATOM 1465 CG VAL A 185 31.009 19.520 62.331 1.00 29.27 6 ATOM 1466 C VAL A 185 31.009 19.520 62.331 1.00 29.27 6 ATOM 1469 CA PHE A 186 29.185 19.119 64.946 1.00 31.51 6 ATOM 1469 CA PHE A 186 29.185 19.119 64.946 1.00 31.31 1.00 11.71 6 ATOM 1469 CA PHE A 186 27.798 19.436 65.207 1.00 31.47 6 ATOM 1470 CB PHE A 186 27.798 19.436 65.207 1.00 31.45 8 ATOM 1471 CG PHE A 186 27.798 19.436 65.207 1.00 31.54 6 ATOM 1473 CD2 PHE A 186 27.798 19.437 65.207 1.00 31.54 6 ATOM 1473 CD2 PHE A 186 27.798 19.437 65.207 1.00 31.54 6 ATOM 1473 CD2 PHE A 186 27.798 19.617 67.066 1.00 31.59 6 ATOM 1473 CD2 PHE A 186 27.798 19.617 67.066 1.00 31.59 6 ATOM 1473 CD2 PHE A 186 27.798 19.617 67.066 1.00 31.59 6 ATOM 1473 CD2 PHE A 186 27.798 19.617 67.066 1.00 31.59 6 ATOM 1474 CC1 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1478 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 6 ATOM 1479 CD2 PHE A 186 27.792 0.395 66.308 1.00 31.50 31.50 6 ATOM 1479 CD2 PHE A 18		-									6
ATOM 1456 CD CAL A 186	ATOM						-				
ATOM 1455 OEI GIN A 184 36.490 11.999 65.436 1.00 31.17 8 7 ATOM 1458 NEZ GIN A 184 36.490 11.999 65.436 1.00 36.42 68 ATOM 1459 C GIN A 184 32.222 16.110 65.403 1.00 36.42 68 ATOM 1461 N VAL A 185 31.329 16.372 64.456 1.00 33.14 7 ATOM 1461 N VAL A 185 31.329 16.372 64.456 1.00 33.14 7 ATOM 1463 CB VAL A 185 31.389 18.052 62.641 1.00 33.03 63 ATOM 1463 CB VAL A 185 31.309 18.052 62.641 1.00 33.03 63 ATOM 1464 CGI VAL A 185 31.308 18.052 62.641 1.00 33.03 63 ATOM 1466 C VAL A 185 32.773 17.738 62.357 1.00 34.58 ATOM 1466 C VAL A 185 32.773 17.738 62.357 1.00 34.58 ATOM 1466 C VAL A 185 29.508 17.972 64.360 1.00 31.51 63 ATOM 1467 O VAL A 185 29.508 17.972 64.360 1.00 31.51 63 ATOM 1467 O VAL A 185 29.508 17.972 64.360 1.00 31.51 63 ATOM 1467 O VAL A 185 28.680 17.124 64.038 1.00 31.71 8 ATOM 1467 CB PHE A 186 27.798 19.463 65.207 1.00 31.45 ATOM 1470 CB PHE A 186 27.798 19.463 65.207 1.00 31.45 ATOM 1471 CG PHE A 186 26.059 19.617 67.066 1.00 31.50 6 ATOM 1472 CD1 PHE A 186 26.059 19.617 67.066 1.00 31.50 ATOM 1473 CD2 PHE A 186 25.179 20.395 66.308 1.00 31.23 ATOM 1474 CC2 PHE A 186 25.179 20.395 66.308 1.00 31.23 ATOM 1476 C2 PHE A 186 25.179 20.395 66.308 1.00 31.23 ATOM 1478 CD2 PHE A 186 23.815 20.457 66.522 1.00 33.04 ATOM 1479 CD1 PHE A 186 23.318 19.733 67.708 1.00 33.28 ATOM 1479 CD1 PHE A 186 23.318 19.733 67.708 1.00 32.35 ATOM 1479 CD1 PHE A 186 23.318 19.733 67.708 1.00 33.28 ATOM 1479 CD1 PHE A 186 23.318 19.733 67.708 1.00 32.35 ATOM 1481 CB VAL A 187 26.435 20.809 64.551 1.00 31.32 ATOM 1479 CD1 PHE A 186 23.318 19.733 67.708 1.00 32.35 ATOM 1481 CB VAL A 187 26.435 20.809 63.752 1.00 31.14 ATOM 1487 CD PHE A 186 23.316 60.00 63.752 1.00 31.32 ATOM 1488 CD CD1 PHE A 186 23.316 60.00 63.752 1.00 31.32 ATOM 1489 CD CD1 PHE A 188 23.436 66.00 63.752 1.00 31.47 ATOM 1487 CD PHE A 188 23.436 66.00 63.752 1.00 31.47 ATOM 1487 CD PHE A 188 23.436 66.00 63.752 1.00 31.47 ATOM 1489 CD CD1 PHE A 188 23.466 66.00 63.752 1.00 31.47 ATOM 1489 CD CD1 PHE A 188 23.466 66.00 66.00 77.7 1.00 29.64 ATOM 1490 CD1	MOŢA		_								
ATOM 1458 NEZ GIN À 184 ATOM 1459 C GIN À 184 ATOM 1459 C GIN À 184 ATOM 1460 O GIN À 184 ATOM 1461 N VAL À 185 ATOM 1461 N VAL À 185 ATOM 1462 CÀ VAL À 185 ATOM 1462 CÀ VAL À 185 ATOM 1463 CB VAL À 185 ATOM 1464 CGI VAL À 185 ATOM 1464 CGI VAL À 185 ATOM 1465 CGZ VAL À 185 ATOM 1466 C VAL À 185 ATOM 1466 C VAL À 185 ATOM 1466 C VAL À 185 ATOM 1467 O VAL À 185 ATOM 1467 O VAL À 185 ATOM 1467 O VAL À 185 ATOM 1467 CD VEL À 185 ATOM 1468 N PIE À 186 ATOM 1467 CD PIE À 186 ATOM 1467 CD PIE À 186 ATOM 1467 CD PIE À 186 ATOM 1471 CG PIE À 186 ATOM 1471 CD PIE À 186 ATOM 1473 CD2 PIE À 186 ATOM 1475 CE2 PIE À 186 ATOM 1476 C2 PIE À 186 ATOM 1478 O PIE À 186 ATOM 1478 C PIE À 186 ATOM 1476 C2 PIE À 186 ATOM 1476 C2 PIE À 186 ATOM 1478 C PIE À 186 ATOM 1479 N VAL À 187 ATOM 1480 CÀ VAL À 187 ATOM 1480 CÀ VAL À 187 ATOM 1481 C VAL À 187 ATOM 1480 CÀ VAL À 187 ATOM 1480 CÀ VAL À 187 ATOM 1481 C VAL À 187 ATOM 1481 C VAL À 187 ATOM 1482 CGI VAL À 187 ATOM 1485 C VAL À 187 ATOM 1486 N LEU À 188 ATOM 1487 C PIE À 186 ATOM 1498 N SER À 189 ATOM 1498 N SER À 189 ATOM 1499 N SER À 189 ATOM 1490 C DE LEU À 188 ATOM 1491 C D LEU À 188 ATOM 1490 C D LEU À 188 ATOM 1491 C D LEU À 188 ATOM 1490 C D LEU À 189 ATOM 1490 C D LEU À 189 ATOM 1490 C D LEU À 190 ATOM 1490 C D LEU À 190 ATOM 1490 C D LEU À 190	MOTA	1456	-								
ATOM 1459 C GLN A 184 ATOM 1469 C GLN A 184 ATOM 1461 N VAL A 185 ATOM 1461 N VAL A 185 ATOM 1462 CA VAL A 185 ATOM 1463 CB VAL A 185 ATOM 1464 CG1 VAL A 185 ATOM 1465 CG2 VAL A 185 ATOM 1465 CG2 VAL A 185 ATOM 1466 C VAL A 185 ATOM 1467 O VAL A 185 ATOM 1470 CB PHE A 186 ATOM 1471 CC PHE A 186 ATOM 1472 CDI PHE A 186 ATOM 1473 CDZ PHE A 186 ATOM 1473 CDZ PHE A 186 ATOM 1476 CC PHE A 186 ATOM 1476 CC PHE A 186 ATOM 1476 CC PHE A 186 ATOM 1477 CF PHE A 186 ATOM 1478 CO VAL A 185 ATOM 1478 CO VAL A 185 ATOM 1478 CO VAL A 186 ATOM 1478 CO PHE A 186 ATOM 1479 CD AVAI A 185 ATOM 1479 CD AVAI A 187 ATOM 1479 CD AVAI A 186 ATOM 1479 CO AVAI A 186 ATOM 1479 CO AVAI A 187 ATOM 1470 CO AVA	ATOM	1457									
ATOM 1460 O GLN A 184 32.803 16.994 66.034 1.00 37.41 8700 1461 N VAL A 185 31.329 16.372 64.456 1.00 33.14 74 74 74 74 74 75 74 75 75 75 75 75 75 75 75 75 75 75 75 75		1458	NE2	GLN A	184					-	
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ATOM 1462 CA VAL A 185 30.984 17.740 64.119 1.00 32.40 4 164 163 CB VAL A 185 31.308 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.641 1.00 33.03 6 18.052 62.051 1.00 29.27 6 18.052 62.051 1.00 29.27 6 18.052 62.051 1.00 29.27 6 18.052 62.051 1.00 29.27 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 34.58 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 62.051 1.00 30.98 6 18.052 66.716 1.00 30.98 60.552 66.716 1.00 30.98 60.552 66.716 1.00 30.98 60.552 66.716 1.00 30.98 60.552 66.716 1.00 30.98 60.552 66.716 1.00 30.98 60						31.32	9	16.372	64.456		7
ATOM 1463 CE VAL A 185 ATOM 1465 CC2 VAL A 185 ATOM 1466 C VAL A 185 ATOM 1466 C VAL A 185 ATOM 1467 O VAL A 185 ATOM 1467 O VAL A 185 ATOM 1468 N PHE A 186 ATOM 1469 CA PHE A 186 ATOM 1469 CA PHE A 186 ATOM 1470 CB PHE A 186 ATOM 1470 CB PHE A 186 ATOM 1470 CB PHE A 186 ATOM 1471 CG PHE A 186 ATOM 1472 CD1 PHE A 186 ATOM 1473 CD2 PHE A 186 ATOM 1473 CD2 PHE A 186 ATOM 1473 CD2 PHE A 186 ATOM 1474 CE1 PHE A 186 ATOM 1474 CE1 PHE A 186 ATOM 1475 CE2 PHE A 186 ATOM 1476 C2 PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1479 N VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1489 CG VAL A 187 ATOM 1489 CG VAL A 188 ATOM 1490 CD VAL A 188 ATOM 1491 CD LEU A 188 ATOM 1495 CG VAL A 188 ATOM 1495 CG VAL A 188 ATOM 1495 CG VAL A 188 ATOM 1496 CB SER A 189 ATOM 1497 CA LEU A 188 ATOM 1498 CG VAL A 187 ATOM 1498 CG VAL A 188 ATOM 1498 CG VAL A 189 ATOM 1498 CG VAL A 188 ATOM 1499 CC VAL A 188 ATOM 1490 CC VAL A 189 ATOM 1490 CC VAL A 189 ATOM 1490 CC VAL A 189 ATOM 1491 CC VAL A 189 ATOM 1490 CC VAL A 189						30.98	4	17.740	64.119	1.00 32.40	6
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ATOM 1466 C VAL A 185									62.357	1.00 34.58	6
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ATOM 1476 C2 PHE A 186 27.490 20.798 64.551 1.00 30.37 ATOM 1478 O PHE A 186 28.189 21.789 64.751 1.00 31.32 ATOM 1479 N VAL A 187 26.435 20.809 63.752 1.00 31.14 ATOM 1480 CA VAL A 187 26.018 21.805 61.525 1.00 32.05 ATOM 1481 CB VAL A 187 26.018 21.805 61.525 1.00 32.07 ATOM 1481 CB VAL A 187 26.018 21.805 61.525 1.00 32.07 ATOM 1482 CG1 VAL A 187 27.420 21.389 61.056 1.00 35.44 ATOM 1483 CG2 VAL A 187 24.638 22.439 61.056 1.00 35.44 ATOM 1485 O VAL A 187 23.666 21.686 63.410 1.00 29.06 ATOM 1486 N LEU A 188 24.579 23.638 64.090 1.00 29.44 ATOM 1487 CA LEU A 188 23.336 24.228 64.551 1.00 29.94 ATOM 1489 CG LEU A 188 23.336 24.228 64.551 1.00 29.62 ATOM 1491 CD2 LEU A 188 20.970 24.844 66.414 1.00 25.87 ATOM 1491 CD2 LEU A 188 22.574 26.107 67.861 1.00 27.69 ATOM 1493 O LEU A 188 23.161 25.454 63.675 61.00 31.50 ATOM 1493 O LEU A 188 23.161 25.454 63.675 61.00 31.50 ATOM 1493 O LEU A 188 23.161 25.454 63.675 61.00 31.50 ATOM 1495 CA SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1496 CB SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1496 CB SER A 189 21.682 26.831 62.390 1.00 24.65 ATOM 1496 CB SER A 189 21.885 27.485 60.083 1.00 31.50 ATOM 1496 CB SER A 189 21.892 25.746 60.083 1.00 27.00 ATOM 1496 CB SER A 189 21.892 25.746 60.083 1.00 27.00 ATOM 1496 CB SER A 189 21.892 25.746 60.083 1.00 27.00 ATOM 1496 CB SER A 189 21.892 25.746 60.083 1.00 29.93 ATOM 1500 N LEU A 190 19.096 29.554 60.083 1.00 29.88 ATOM 1501 CA LEU A 190 19.096 29.554 60.083 1.00 29.95 ATOM 1500 CA LEU A 190 19.096 29.554 60.077 1.00 29.66 ATOM 1500 CA LEU A 190 19.096 29.554 60.077 1.00 29.67 ATOM 1500 CA LEU A 190 19.096 29.554 60.077 1.00 29.68 ATOM 1500 CA LEU A 190 19.096 29.554 60.079 1.00 29.70 ATOM 1500 CA LEU A 190 19.096 29.554 60.079 1.00 29.70 ATOM 1500 CA LEU A 190 19.096 29.554 60.079 1.00 29.58 ATOM 1500 CA LEU A 190 19.096 29.554 60.079 1.00 29.58 ATOM 1500 CA LEU A 190 19.096 29.554 60.079 1.00 29.58 ATOM 1500 CA LEU A 190 19.096 29.554 60.096 1.00 29.72 ATOM 1500 CA LEU A 190 19.096 29.554 60.096 1.00 29.72 ATOM 1500 CA	ATOM										6
ATOM 1478 O PHE A 186	ATOM	1476									6
ATOM 1479 N VAL A 187 26.015 20.809 63.752 1.00 31.14 ATOM 1480 CA VAL A 187 26.018 21.805 63.063 1.00 32.05 ATOM 1481 CB VAL A 187 26.018 21.805 61.525 1.00 33.54 ATOM 1482 CG1 VAL A 187 25.574 23.081 60.813 1.00 32.07 ATOM 1483 CG2 VAL A 187 27.420 21.389 61.056 1.00 35.44 ATOM 1485 CG VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 C VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 C VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 C VAL A 187 23.666 63.401 1.00 29.06 ATOM 1485 CB LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1488 CB LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1489 CG LEU A 188 22.293 25.589 66.458 1.00 27.92 ATOM 1490 CD1 LEU A 188 22.574 26.107 67.861 1.00 27.69 ATOM 1491 CD2 LEU A 188 23.3161 25.454 63.675 1.00 31.59 ATOM 1493 C LEU A 188 23.3161 25.454 63.675 1.00 31.89 ATOM 1494 N SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1496 CB SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1496 CB SER A 189 21.682 6.831 60.942 1.00 22.40 ATOM 1497 OG SER A 189 21.585 27.485 60.083 1.00 31.50 ATOM 1499 CB LEU A 190 21.887 26.411 60.942 1.00 22.40 ATOM 1499 CB SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1499 CB SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1499 CB LEU A 190 21.585 27.462 62.540 1.00 27.00 24.65 ATOM 1499 CB SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1499 CB LEU A 190 19.086 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 19.096 29.554 62.735 1.00 29.84 ATOM 1500 CB LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 29.88 ATOM 1505 CB LEU A 190 19.086 30.366 65.264 1.00 29.88 ATOM 1505 CB LE	MOTA	1477	С	PHE A	186						
ATOM 1480 CA VAL A 187 26.024 22.015 63.063 1.00 32.05 ATOM 1481 CB VAL A 187 26.024 22.015 63.063 1.00 32.05 ATOM 1482 CG1 VAL A 187 26.018 21.805 61.525 1.00 33.54 ATOM 1482 CG1 VAL A 187 25.574 23.081 60.813 1.00 32.07 ATOM 1484 C VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 O VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 O VAL A 187 23.666 21.686. 63.410 1.00 29.06 ATOM 1485 O VAL A 1887 23.666 21.686. 63.410 1.00 29.06 ATOM 1488 CB LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1488 CB LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1489 CG LEU A 188 22.293 25.589 66.458 1.00 27.92 ATOM 1490 CD1 LEU A 188 22.593 25.589 66.458 1.00 27.92 ATOM 1491 CD2 LEU A 188 22.574 26.107 67.861 1.00 27.99 ATOM 1492 C LEU A 188 22.574 26.107 67.861 1.00 31.89 ATOM 1493 O LEU A 188 23.161 25.454 63.675 1.00 31.89 ATOM 1493 O LEU A 188 24.130 26.175 63.388 1.00 31.50 ATOM 1495 CA SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1496 CB SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1496 CB SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1499 O SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1498 C SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1498 C SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1498 C SER A 189 21.8873 26.411 60.942 1.00 27.00 ATOM 1499 O SER A 189 21.8873 26.411 60.942 1.00 27.00 ATOM 1500 CA LEU A 190 19.096 29.554 62.577 1.00 27.01 ATOM 1500 CA LEU A 190 19.096 29.554 62.577 1.00 29.68 ATOM 1500 CG LEU A 190 19.08 30.662 63.771 1.00 29.68 ATOM 1505 CD2 LEU A 190 19.08 30.662 66.045 1.00 27.63 ATOM 1506 C LEU A 190 19.08 30.662 66.045 1.00 27.63 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19.08 30.662 66.045 1.00 29.78 ATOM 1506 CA LEU A 190 19		1478	0	PHE A	186						8
ATOM 1480 CA VAL A 187 26.018 21.805 61.525 1.00 33.54 ATOM 1481 CB VAL A 187 26.018 21.805 61.525 1.00 33.54 ATOM 1482 CG1 VAL A 187 25.574 23.081 60.813 1.00 32.07 ATOM 1483 CG2 VAL A 187 27.420 21.389 61.056 1.00 35.44 ATOM 1485 0 VAL A 187 24.638 22.439 63.524 1.00 31.47 ATOM 1485 0 VAL A 187 23.666 21.686. 63.410 1.00 29.04 ATOM 1486 N LEU A 188 24.579 23.638 64.090 1.00 29.44 ATOM 1488 CB LEU A 188 23.336 24.228 66.551 1.00 29.39 ATOM 1488 CB LEU A 188 23.336 24.228 66.551 1.00 29.39 ATOM 1498 CC LEU A 188 22.293 25.589 66.455 1.00 29.62 ATOM 1491 CD2 LEU A 188 22.574 26.107 67.861 1.00 27.92 ATOM 1492 C LEU A 188 23.161 25.454 63.675 1.00 31.89 ATOM 1493 O LEU A 188 24.130 26.175 63.388 1.00 31.50 ATOM 1494 N SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1495 CA SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1496 CB SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1497 OG SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1499 C SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1499 C B SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1499 C B SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1490 C B SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1490 C B SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1490 C B SER A 189 21.682 26.831 62.390 1.00 29.93 ATOM 1500 N LEU A 190 19.96 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 19.06 30.662 63.771 1.00 29.68 ATOM 1500 C B LEU A 190 19.08 30.682 63.771 1.00 29.68 ATOM 1500 C B LEU A 190 19.08 30.662 66.045 1.00 27.63 ATOM 1500 C B LEU A 190 19.08 30.662 66.045 1.00 27.63 ATOM 1500 C B LEU A 190 19.08 30.662 66.045 1.00 27.63 ATOM 1501 CA HEU A 190 19.046 30.255 60.790 1.00 32.40 ATOM 1505 CD LEU A 190 19.08 30.662 66.045 1.00 29.76 ATOM 1501 CB HIS A 191 17.766 30.726 69.388 1.00 29.75 ATOM 1506 C LEU A 190 19.046 30.246 65.546 1.00 29.75 ATOM 1501 CB HIS A 191 17.766 30.726 69.389 58.432 1.00 29.75 ATOM 1501 CB HIS A 191 17.766 30.726 69.388 1.00 29.72 ATOM 1506 C HIS A 191 18.255 29.839 58.432 1.00 29.72 ATOM 1510 CB HIS A 191 17.766 30.411 59.535 1.00 29.88		1479	N	VAL A	187						7
ATOM 1481 CB VAL A 187		1480	CA	VAL A	187	26.02	24				6
ATOM 1482 CG1 VAL A 187		1481	CB	VAL A	187						6
ATOM 1483 CG2 VAL A 187			CG1	VAL A	187						6
ATOM 1484 C VAL A 187			CG2	VAL A	187	27.42	2,0	21.389			6
ATOM 1485 O VAL A 187			С	VAL A	187	24.63	38				6
ATOM 1486 N LEU A 188 24.579 23.638 64.090 1.00 29.39 ATOM 1487 CA LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1488 CB LEU A 188 23.433 24.665 66.009 1.00 29.62 ATOM 1489 CG LEU A 188 22.293 25.589 66.458 1.00 27.92 ATOM 1490 CD1 LEU A 188 20.970 24.844 66.414 1.00 25.87 ATOM 1491 CD2 LEU A 188 22.574 26.107 67.861 1.00 27.69 ATOM 1492 C LEU A 188 23.161 25.454 63.675 1.00 31.89 ATOM 1493 O LEU A 188 24.130 26.175 63.388 1.00 27.69 ATOM 1494 N SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1494 N SER A 189 21.682 26.831 62.390 1.00 24.65 ATOM 1496 CB SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1497 OG SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1498 C SER A 189 20.516 27.465 62.540 1.00 27.00 ATOM 1499 O SER A 189 20.516 27.465 62.540 1.00 27.00 ATOM 1499 O SER A 189 20.516 27.465 62.540 1.00 27.00 ATOM 1500 N LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1500 CB LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1505 CD2 LEU A 190 19.185 30.682 63.771 1.00 29.68 ATOM 1505 CD2 LEU A 190 19.096 29.554 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.096 29.554 65.546 1.00 27.63 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1510 CB HIS A 191 18.525 28.392 58.504 1.00 28.18 ATOM 1511 CG HIS A 191 18.995 26.200 58.810 1.00 29.72 ATOM 1510 CB HIS A 191 18.995 26.200 58.810 1.00 27.21 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 28.05 ATOM 1515 ND2 HIS A 191 16.938 26.614 58.312 1.00 27.21 ATOM 1516 C HIS A 191 16.938 26.614 58.312 1.00 27.21 ATOM 1515 ND2 HIS A 191			0	VAL A	187	23.66	56				8
ATOM 1488 CB LEU A 188 23.336 24.228 64.551 1.00 29.39 ATOM 1488 CB LEU A 188 22.293 25.589 66.458 1.00 27.92 ATOM 1490 CD1 LEU A 188 20.970 24.844 66.414 1.00 25.87 ATOM 1491 CD2 LEU A 188 22.574 26.107 67.861 1.00 27.69 ATOM 1492 C LEU A 188 24.130 26.175 63.388 1.00 31.50 ATOM 1494 N SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1495 CA SER A 189 21.682 26.831 62.390 1.00 24.65 ATOM 1495 CA SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1499 O SER A 189 20.516 27.462 62.540 1.00 27.00 ATOM 1499 O SER A 189 20.516 27.462 62.540 1.00 27.00 ATOM 1505 CD LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1505 CD LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1505 CD LEU A 190 19.096 29.554 66.045 1.00 27.41 ATOM 1505 CD LEU A 190 19.086 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 30.1662 66.045 1.00 29.58 ATOM 1506 C LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1506 C LEU A 190 19.086 30.366 65.264 1.00 27.63 ATOM 1506 C LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1506 C LEU A 190 19.086 30.366 65.264 1.00 29.58 ATOM 1507 O LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1500 CB HIS A 191 18.595 29.839 58.432 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.831 1.00 31.00 ATOM 1515 CD2 HIS A 191 18.595 29.839 58.831 1.00 31.00 30.54 ATOM 1515 CD2 HIS A 191 18.595 29.839 58.856 1.00 29.72 ATOM 1516 CHIS A 191 18.595 29.839 58.856 1.00 29.72 ATOM 1517 CHIS A 191 18.995 26.200 58.810 1.00 27.21 ATOM 1517 CHIS A 191 18.995 26.200 58.810 1.00 27.21 ATOM 1517 CHIS A 191 18.995 26.200 58.810 1.00 27.21 ATOM 1						24.57	79	23.638		1.00 29.44	7
ATOM 1488 CB LEU A 188						23.33	36	24.228	64.551		6
ATOM 1490 CD1 LEU A 188						23.43	33	24.665	66.009		6
ATOM 1490 CD1 LEU A 188						22.29	93	25.589	66.458	1.00 27.92	6
ATOM 1491 CD2 LEU A 188						20.97	70	24.844	66.414		6
ATOM 1492 C LEU A 188 23.161 25.454 63.675 1.00 31.89 ATOM 1493 O LEU A 188 24.130 26.175 63.388 1.00 31.50 ATOM 1494 N SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1495 CA SER A 189 21.682 26.831 62.390 1.00 24.65 ATOM 1496 CB SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1497 OG SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 20.16 27.465 62.540 1.00 27.00 ATOM 1499 O SER A 189 1996 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 20.21 28.783 62.669 1.00 27.41 ATOM 1501 CA LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1503 CG LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1504 CD1 LEU A 190 19.008 30.366 65.264 1.00 27.63 ATOM 1505 CD2 LEU A 190 19.008 30.366 65.264 1.00 26.79 ATOM 1506 C LEU A 190 19.008 30.366 65.264 1.00 27.63 ATOM 1507 O LEU A 190 19.008 30.366 65.264 1.00 27.63 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.58 ATOM 1500 CB HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 29.72 ATOM 1510 CB HIS A 191 18.255 28.392 58.504 1.00 29.72 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.255 28.392 58.504 1.00 28.88 ATOM 1510 CB HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1511 CCH HIS A 191 18.998 27.921 58.118 1.00 31.00 ATOM 1515 ND2 HIS A 191 18.998 27.921 58.118 1.00 30.54 ATOM 1515 ND2 HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1516 CH HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1516 CH HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1516 CH HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191						22.57	74	26.107			6
ATOM 1493 O LEU A 188						23.16	61	25.454	63.675		6
ATOM 1494 N SER A 189 21.929 25.700 63.250 1.00 29.93 ATOM 1495 CA SER A 189 21.682 26.831 62.390 1.00 24.65 ATOM 1496 CB SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1497 OG SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 20.16 27.462 62.540 1.00 27.00 ATOM 1499 O SER A 189 1996 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 20.121 28.783 62.669 1.00 27.41 ATOM 1501 CA LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1502 CB LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.185 30.682 63.771 1.00 26.79 ATOM 1504 CD1 LEU A 190 19.020 31.662 66.045 1.00 27.63 ATOM 1505 CD2 LEU A 190 19.020 31.662 66.045 1.00 23.444 ATOM 1505 CD2 LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.255 28.392 58.504 1.00 28.88 ATOM 1513 ND1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1514 CE1 HIS A 191 18.995 26.220 58.810 1.00 27.21 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 29.72 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 29.39						24.13	30	26.175			8
ATOM 1495 CA SER A 189						21.92	29	25.700	63.250		7
ATOM 1496 CB SER A 189 21.873 26.411 60.942 1.00 22.40 ATOM 1497 OG SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 20.16 27.462 62.540 1.00 27.00 ATOM 1499 O SER A 189 1996 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 20.121 28.783 62.669 1.00 27.41 ATOM 1501 CA LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1502 CB LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.108 30.366 65.264 1.00 26.79 ATOM 1505 CD2 LEU A 190 19.020 31.662 66.045 1.00 23.44 ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 17.881 29.549 65.546 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1510 CB HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1514 CE1 HIS A 191 18.291 58.504 1.00 28.18 ATOM 1515 ND2 HIS A 191 16.989 27.921 58.118 1.00 30.54 ATOM 1515 ND2 HIS A 191 16.989 27.921 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 ND2 HIS A 191 16.938 26.620 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 16.329 30.812 58.856 1.00 29.73								26.831	62.390		6
ATOM 1497 OG SER A 189 21.585 27.485 60.083 1.00 19.12 ATOM 1498 C SER A 189 20.16 27.462 62.540 1.00 27.00 ATOM 1499 O SER A 189 1996 26.774 62.577 1.00 26.72 ATOM 1500 N LEU A 190 20.121 28.783 62.669 1.00 27.41 ATOM 1501 CA LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1502 CB LEU A 190 19.185 30.682 63.771 1:00 29.84 ATOM 1503 CG LEU A 190 19.108 30.366 65.264 1.00 26.79 ATOM 1504 CD1 LEU A 190 19.020 31.662 66.045 1.00 23.44 ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1510 CB HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1513 ND1 HIS A 191 18.595 29.839 58.432 1.00 28.18 ATOM 1514 CE1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81						21.8	73	26.411	60.942		6
ATOM 1498 C SER A 189						21.5	85	27.485	60.083		8
ATOM 1499 O SER A 189						20.73	16		62.540		6
ATOM 1500 N LEU A 190				SER A	189	19	96	26.774	62.577	1.00 26.72	8
ATOM 1501 CA LEU A 190 19.096 29.554 62.735 1.00 29.68 ATOM 1502 CB LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.108 30.366 65.264 1.00 26.79 ATOM 1505 CD2 LEU A 190 19.020 31.662 66.045 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1510 CB HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.255 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.295 29.839 58.432 1.00 26.47 ATOM 1513 ND1 HIS A 191 18.295 29.839 58.432 1.00 28.88 ATOM 1514 CE1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1515 NE2 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 27.21 ATOM 1517 O HIS A 191 16.329 30.812 58.856 1.00 27.81 ATOM 1517 O HIS A 191 16.329 30.812 58.856 1.00 27.81 ATOM 1517 O HIS A 191 16.329 30.812 58.856 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81				LEU A	190				62.669		7
ATOM 1502 CB LEU A 190 19.185 30.682 63.771 1.00 29.84 ATOM 1503 CG LEU A 190 19.108 30.366 65.264 1.00 26.79 ATOM 1504 CD1 LEU A 190 19.020 31.662 66.045 1.00 23.44 ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1513 ND1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 29.73 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81								29.554	62.735		6
ATOM 1503 CG LEU A 190 19.108 30.366 65.264 1.00 26.79 ATOM 1504 CD1 LEU A 190 19.020 31.662 66.045 1.00 23.44 ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1512 CD2 HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1513 ND1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 27.21 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81									63.771		6
ATOM 1504 CD1 LEU A 190 19.020 31.662 66.045 1.00 23.44 ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1513 ND1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81									65.264	1.00 26.79	6
ATOM 1505 CD2 LEU A 190 17.881 29.549 65.546 1.00 27.63 ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81									66.045	1.00 23.44	6
ATOM 1506 C LEU A 190 19.046 30.141 61.329 1.00 29.58 ATOM 1507 O LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 30.54 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 29.39			CDI	TEU Y	190						6
ATOM 1506 C LEU A 190 20.084 30.525 60.790 1.00 32.40 ATOM 1508 N HIS A 191 17.864 30.206 60.727 1.00 29.61 ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.989 27.921 58.118 1.00 30.54 ATOM 1515 NE2 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1516 C HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81											6
ATOM 1507 O LEO A 190 ATOM 1508 N HIS A 191 ATOM 1509 CA HIS A 191 ATOM 1510 CB HIS A 191 ATOM 1511 CG HIS A 191 ATOM 1512 CD2 HIS A 191 ATOM 1513 ND1 HIS A 191 ATOM 1514 CE1 HIS A 191 ATOM 1515 NE2 HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 O HIS A 191 ATOM 1517 O HIS A 191 ATOM 1518 C HIS A 191 ATOM 1519 NO2 HIS A 191 ATOM 1511 NO2 HIS A 191 ATOM 1515 NE2 HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 O HIS A 191 ATOM 1518 O HIS A 191 ATOM											8
ATOM 1509 CA HIS A 191 17.766 30.726 59.368 1.00 29.72 ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81											7
ATOM 1510 CB HIS A 191 18.595 29.839 58.432 1.00 26.47 ATOM 1511 CG HIS A 191 18.225 28.392 58.504 1.00 28.18 ATOM 1512 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81	ATOM										6
ATOM 1510 CB HIS A 191 ATOM 1511 CG HIS A 191 ATOM 1512 CD2 HIS A 191 ATOM 1513 ND1 HIS A 191 ATOM 1514 CE1 HIS A 191 ATOM 1515 NE2 HIS A 191 ATOM 1515 C HIS A 191 ATOM 1516 C HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 O HIS A 191 ATOM 1518 A 191	MOTA			HIS A	191						6
ATOM 1511 CD2 HIS A 191 18.918 27.313 58.940 1.00 28.88 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81	MOTA										6
ATOM 1512 CD2 HIS A 191 18.918 27.313 38.340 1.00 20.00 ATOM 1513 ND1 HIS A 191 16.989 27.921 58.118 1.00 31.00 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81	MOTA										6
ATOM 1513 ND1 HIS A 191 16.989 27.921 58.116 1.00 31.50 ATOM 1514 CE1 HIS A 191 16.938 26.614 58.312 1.00 30.54 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81		1512	CD2	HIS A	191						7
ATOM 1514 CE1 HIS A 191 16.938 26.614 38.312 1.00 37.34 ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81		1513	ND1	HIS A	191						6
ATOM 1515 NE2 HIS A 191 18.095 26.220 58.810 1.00 27.21 ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81		1514	CE1	HIS A	. 191						7
ATOM 1516 C HIS A 191 16.329 30.812 58.856 1.00 28.05 ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81				HIS A	191				,58.810		
ATOM 1517 O HIS A 191 15.385 30.411 59.535 1.00 27.81			C								8
34VII 400 46 100 24 14 17 EAR 1 100 24 14			0	HIS A	. 191						_
A1944	ATOM	1518	N	GLN A	192	16.1	.83	31.346	57.649	1.00 29.39	,

									_
			OT NY N 102	,	14.886	31.494	57.008	1.00 28.21	6
ATOM	1519	CA (GLN A 192	•			55.796	1.00 24.94	6
MOTA	1520	CB (GLN A 192	2	15.016	32.416			
			GLN A 192		15.622	33.773	56.124	1.00 21.66	6
ATOM	1521						54.921	1.00 22.22	6
MOTA	1522	CD (GLN A 192	2	15.701	34.690		1.00 22.22	
		251	CTN N 105)	14.684	35.173	54.428	1.00 23.38	8
ATOM	1523		GLN A 192				54.434	1.00 22.97	7
	1524	NE2	GLN A 192	2	16.914	34.925			
ATOM					14.435	30.104	56.570	1.00 32.71	6
MOTA	1525	C .	GLN A 192	2			55.853	1.00 33.85	8
	1526	0	GLN A 192	2	15.157	29.403			
MOTA			c== 1 101	5	13.249	29.694	57.011	1.00 34.44	7
ATOM	1527	N	SER A 193	•			_	1.00 33.28	6
	1528	CA	SER A 193	3	12.751	28.376	56.650		
MOTA					11.264	28.249	56.961	1.00 33.25	6
ATOM	1529		SER A 193					1.00 31.52	8
	1530	OG	SER A 193	3	10.786	26.987	56.540		
MOTA	2000				12.974	28.150	55.171	1.00 34.79	6
ATOM	1531		SER A 193			20.251	54.356	1.00 33.74	8
MOTA	1532	0	SER A 19:	3	12.775	29.051			
			PRO A 19		13.404	26.938	54.803	1.00 37.57	7
MOTA	1533					25.775	55.658	1.00 38.89	6
ATOM	1534	CD	PRO A 19	4	13.689				6
			PRO A 19		13.654	26.600	53.403	1.00 37.81	
MOTA	1535	CA				25.194	53.498	1.00 39.30	6
ATOM	1536	CB	PRO A 19	4	14.248			1.00 39.09	6
	1537	CG	PRO A 19	4	14.840	25.163	54.916		
MOTA					12.340	26.617	52.638	1.00 36.81	6
ATOM	1538	С	PRO A 19	4			52 425	1.00 34.09	8
	1539	0	PRO A 19	4	12.317	26.443	51.425		
MOTA			71.0 11 22	c .	11.246	26.835	53.364	1.00 39.25	7
MOTA	1540	N	GLÜ A 19	-				1.00 41.54	6
	1541	CA	GLU A 19	5	9.928	26.866	52.750		
MOTA			CY 17 7 10	<u> </u>	8.843	26.600	53.812	1.00 45.84	6
MOTA	1542	CB	GLU A 19	5			54.608	1.00 53.30	6
MOTA	1543	CG	GLU A 19	5	8.360	27.811			
			GLU A 19		7.160	28.502	53.960	1.00 55.91	6
MOTA	1544	CD				29.571	54.461	1.00 55.14	8
MOTA	1545	OE1	GLU A 19	5	6.735				8
		053	GLU A 19	5	6.631	27.966	52.956	1.00 57.75	
MOTA	1546		GLU A 12	=	9.700	28.208	52.047	1.00 39.50	6
MOTA	1547	С	GLU A 19	5				1.00 40.21	8
	1548	0	GLU A 19	15	8.651	28.431	51.452		
MOTA				Ē	10.689	29.096	52.098	1.00 37.13	7
MOTA	1549	N	TYR A 19	0			51.434	1.00 35.50	6
	1550	CA	TYR A 19	96	10.549	30.379			
ATOM			TYR A 19	6	9.602	31.274	52.245	1.00 36.36	6
ATOM	1551	CB					53.538	1.00 37.28	6
ATOM	1552	CG	TYR A 19	96	10.175	31.816			6
	1553	CD1	TYR A 19		11.120	32.848	53.527	1.00 35.42	
ATOM					11.637	33.366	54.706	1.00 33.10	6
ATOM	1554	CEl						1.00 36.75	6
	1555	CD2	TYR A 19	96	9.764	31.311	54.776		
MOTA					10.279	31.825	55.968	1.00 35.26	6
MOTA	1556	CE2	TYR A 19				55.922	1.00 35.84	6
ATOM	1557	CZ	TYR A 19	96	11.213	32.856			8
		OH	TYR A 19		11.704	33.401	57.087	1.00 37.09	
MOTA	1558		111 11 11		11.878	31.097	51.188	1.00 34.89	6
MOTA	1559	С	TYR A 19	96				1.00 31.61	8
	1560	0	TYR A 19	96	11.896	32.256	50.764	1.00 31.01	
ATOM					12.991	30.416	51.437	1.00 34.39	7
MOTA	1561	N	ALA A 19	<i>-</i>				1.00 34.82	6
ATOM	1562	CA	ALA A 1	97	14.297				6
			ALA A 1	97	14.684	31.826	52.489	1.00 32.48	
MOTA	1563	CB	ALA A I	, 				1.00 36.59	6
ATOM	1564	C	ALA A 1	97	15.418			1 00 37 45	8
	1565	0	ALA A 1	97	15.407	28.903			
MOTA			T1077 3 4	0.0	16.388			1.00 36.22	7
MOTA	1566	N	PHE A 1		10.500				6
ATOM	1567	CA	PHE A 1	98	17.548	29.802	49.722		
			PHE A 1	9.8	18.597		49.109	1.00 40.89	6
ATOM	1568	CB							6
MOTA	1569	CG	PHE A 1	98	19.810				6
		CDI	PHE A 1	9.8	19.783	29.404	47.325	1.00 44.74	
ATOM	1570	נעט	PRE A 1	20				1.00 41.86	6
ATOM	1571	CD2	PHE A 1	98	20.970				6
		CE1			20.894	28.729	46.833		0
MOTA	1572				22.079			1.00 43.30	6
ATOM	1573	CE2	PHE A 1						6
	1574	CZ	PHE A 1		22.040				Ž
MOTA					18.139			1.00 37.00	6
ATOM	1575		PHE A 1						8
	1576		PHE A 1	.98	18.166	5 29.754			Š
MOTA					18.64		2 50.848	3 1.00 37.63	7
MOTA	1577	N	PRO A 1	. 3 3			-		6
	1578		PRO A 1	.99	19.29				
ATOM	_		PRO A 1	99	18.72	7 27.00	B 49.673	3 1.00 36.52	6
ATOM	1579		PRU A						6
ATOM	1580	CB	PRO A 1	.99	19.70		·	·	
			PRO A 1	99	19.28	1 25.77			_
ATOM	1581		FRO A	00	17.40			2 1.00 35.72	
ATOM	1582	. C	PRO A 1	レプフ					
	1583		PRO A 1	199	17.38				
ATOM			PHE A 2	200	16.33	1 26.63	8 49.96	2 1.00 33.78	,
MOT	1584	N	FRE A 4		10.00				

92/263

» mow	1585	CA F	PHE A 200		15.004	26.090	49.662	1.00 32.15	6
MOTA	1586		PHE A 200		14.562	26.381	48.222	1.00 28.39	6
ATOM	1587		PHE A 200		14.600	27.827	47.835	1.00 26.29	6
ATOM	1588		PHE A 200		15.749	28.385	47.296	1.00 24.82	6
ATOM	1589		PHE A 200		13.466	28.623	47.966	1.00 28.04	6
MOTA	1590	CE1	PHE A 200		15.767	29.712	46.882	1.00 25.68	ó
ATOM.	1591		PHE A 200		13.475	29.955	47.557	1.00 27.03	6
MOTA	1592		PHE A 200		14.626	30.498	47.013	1.00 24.90	6
ATOM			PHE A 200		14.947	24.574	49.842	1.00 32.66	6
MOTA	1593		PHE A 200		13.925	24.033	50.264	1.00 31.22	8
MOTA	1594		GLU A 201		16.043	23.896	49.499	1.00 33.60	7
ATOM	1595 1596		GLU A 201		16.128	22.438	49.585	1.00 30.86	6
ATOM	1597		GLU A 201		17.213	21.931	48.637-	1.00 32.98	6
ATOM	1598		GLU A 201		16.879	22.182	47.175	1.00 33.52	6
MOTA	1599		GLU A 201		18.012	21.864	46.232	1.00 34.56	6
MOTA	1600		GLU A 201		18.396	20.678	46.117	1.00 36.35	8 -
ATOM	1601		GLU A 201		18.523	22.814	45.605	1.00 36.52	8
ATOM ATOM	1602		GLU A 201		16.369	21.911	50.981	1.00 28.52	6
ATOM	1603		GLU A 201		15.537	21.199	51.520	1.00 28.91	8
MOTA	1604		LYS A 202		17.511	22.239	51.566	1.00 31.64	7
MOTA	1605		LYS A 202		17.795	21.780	52.917	1.00 32.34	6
ATOM	1606	CB	LYS A 202		19.276	21.432	53.092	1.00 36.91	6
MOTA	1607	CG	LYS A 202		19.789	20.226	52.307	1.00 43.74	6
MOTA	1608		LYS A 202		20.212	20.590	50.891	1.00 49.31	6 6
ATOM	1609		LYS A 202		20.952	19.428	50.227	1.00 49.34	7
ATOM	1610		LYS A 202		21.504	19.802	48.895	1.00 49.89	6
MOTA	1611	С	LYS A 202		17.421	22.849	53.937	1.00 30.55 1.00 26.55	8
ATOM	1612	0	LYS A 202		16.877	23.890	53.586	1.00 26.55	7
ATOM	1613	N	GLY A 203		17.710	22.571	55.203	1.00 30.33	6
ATOM	1614	CA	GLY A 203		17.422	23.519	56.259	1.00 30.24	6
ATOM	1615	С	GLY A 203		16.216	23.210	57.125	1.00 32.90	8
ATOM	1616	0	GLY A 203		15.915	23.975	58.041 56.866	1.00 26.32	7
ATOM	1617	N	PHE A 204		15.526	22.104	57.657	1.00 23.25	6
ATOM	1618	CA	PHE A 204		14.344	21.779 20.917	56.863	1.00 21.25	6
MOTA	1619	СВ	PHE A 204		13.366	20.517	55.635	1.00 18.60	6
MOTA	1620	CG	PHE A 204		12.855 13.605	21.560	54.461	1.00 16.43	6
MOTA	1621		PHE A 204		11.654	22.273	55.664	1.00 14.82	6
MOTA	1622		PHE A 204		13.168	22.245	53.333	1.00 16.91	6
ATOM	1623	CEI	PHE A 204	i 1	11.206	22.962	54.544	1.00 15.28	6
MOTA	1624		PHE A 204		11.965	22.952	53.375	1.00 18.34	6
ATOM	1625	CZ	PHE A 204		14.626	21.094	58.979	1.00 23.72	6
ATOM	1626	0	PHE A 20	1	15.578	20.318	59.118	1.00 22.68	8
ATOM	1627	N	LEU A 20	<u>.</u>	13.760	21.376	59.942	1.00 20.94	7
ATOM	1628 1629	CA	LEU A 20!		13.877	20.818	61.272	1.00 24.83	6
ATOM		CB	LEU A 20		12.678	21.259	52.110	1.00 21.29	6
MOTA	1630 1631	CG	LEU A 20	5	12.672	20.811	33.568	1.00 22.67	6
MOTA	1632	CD1	LEU A 20	5	14.011	21.182	74.245	1.00 19.76	6
MOTA MOTA	1633	CD2	LEU A 20	5	11.478	21.456	64.275	1.00 20.62	6
MOTA	1634	c	LEU A 20	5	14.002	19.293	61.303	1.00 28.79	6
ATOM	1635	ō	LEU A 20	5	14.443	18.730	62.310	1.00 28.59	8 7
MOTA	1636	N	GLU A 20		13.625		60.211	1.00 33.52	6
ATOM	1637	CA	GLU A 20	6	13.693		60.142	1.00 39.79	6
ATOM	1638		GLU A 20		12.736		59,070		6
MOTA	1639	CG	GLU A 20		11.284				6
ATOM	1640		GLU A 20	6	11.014				.8
MOTA	1641	OE1			9.972				8
ATOM	1642	OE2	GLU A 20	6	11.839				6
MOTA	1643		GLU A 20	6	15.114				8
MOTA	1644	Ö	GLU A 20	6	15.483				7
ATOM	1645		GLU A 20	7	15.903				6
ATOM	1646		GLU A 20	7	17.286	17.219			6
ATOM	1647		GLU A 20	7	17.776				6
ATOM	1648		GLU A 20	7	16.983	18.158			6
ATOM	1649	CD	GLU A 20	7	16.978				8
MOTA	1650		L GLU A 20	7	18.07	L 20.016	55.537	1.00 33.44	•
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		> 207	15.870	19.891	55.389 1		8
		LU A 207	18.139	17.239	60.134	1.00 36.18	6
		LU A 207	18.560	18.303	60.590	1.00 34.81	8
		LU A 207	18.381	16.059	60.701	1.00 34.45	7
		LE A 208	19.164	15.965	61.932	1.00 38.53	6
ATOM	1655 CA I	LE A 208		15.511	63.117	1.00 41.12	6
ATOM		LE A 208	18.260 19.097	15.273	64.375	1.00 41.36	6
MOTA		LE A 208	17.193	16.581	63.383	1.00 42.21	6
MOTA		LE A 208		16.286	64.560	1.00 44.81	6
ATOM		LE A 208	.16.291	15.074		1.00 36.66	6
MOTA		LE A 208	20.407	15.110		1.00 34.03	8
MOTA	1661 0 7	LE A 208	21.243	14.284		1.00 36.80	7
ATOM		LY A 209	20.540 21.703	13.428		1.00 38.99	6
ATOM		LY A 209	21.703	12.246		1.00 40.93	6
MOTA		GLY A 209	20.477	12.124	59.145	1.00 40.26	8
MOTA		GLY A 209	22.508	11.370	59.775	1.00 42.16	7
ATOM	•	GLU A 210	22.492	10.185	58.930	1.00 43.30	6
MOTA		GLU A 210	22.810	10.586	57.488	1.00 47.08	6
MOTA		GLU A 210	22.826	9.453	56.478	1.00 53.90	6
MOTA		GLU A 210	23.256	9.915	55.089	1.00 56.27	6
ATOM		GLU A 210	24.412	10.371	54.941	1.00 56.19	8
MOTA		GLU A 210 GLU A 210	22.437	9.826	54.145	1.00 60.28	8
MOTA		GLU A 210	23.583	9.276	59.473	1.00 41.47	6
MOTA		GLU A 210	24.750	9.457	59.152	1.00 43.97	8
MOTA		GLU A 210 GLY A 211	23.203	8.307	60.299	1.00 39.97	7
mota		GLY A 211	24.181	7.405	60.885	1.00 37.34	6
ATOM		GLY A 211	24.642	7.952	62.224	1.00 37.84	6
MOTA	1678 0	GLY A 211	23.820	8.408	63.019	1.00 37.30	8 7
ATOM ATOM	1679 N	LYS A 212	25.948	7.910	62.485	1.00 38.52 1.00 38.29	6
ATOM	1680 CA	LYS A 212	26.490	8.440	63.733	1.00 40.54	6
MOTA	1681 CB	LYS A 212	28.020	8.359	63.731 63:675	1.00 46.39	6
ATOM	1682 CG	LYS A 212	28.570		64.910	1.00 51.59	6
ATOM	1683 CD	LYS A 212	28.149		64.809	1.00 52.77	6 -
ATOM	1684 CE	LYS A 212	28.556 30.030		64.662	1.00 55.48	7
ATOM	1685 NZ	LYS A 212	26.061		63.866	1.00 37.68	6
MOTA	1686 C	LYS A 212 LYS A 212	. 25.814		64.962	1.00 34.75	8
MOTA	1687 O 1688 N	GLY A 213	25.956		62.728	1.00 38.89	7
MOTA	1688 N 1689 CA	GLY A 213	25.577		62.724	1.00 43.58	6 6
MOTA	1690 C	GLY A 213	24.126	12.295	63.020	1.00 43.99	8
MOTA MOTA	1691 C	GLY A 213	23.737			1.00 44.67	7
ATOM	1692 N	LYS A 214	23.321			1.00 46.02 1.00 45.61	6
ATOM	1693 CA	LYS A 214 ·	21.907			1.00 47.77	6
ATOM	1694 CB	LYS A 214	21.168			1.00 49.25	6
ATOM	1695 CG	LYS A 214	19.675				6
MOTA	1696 CD	LYS A 214	19.078 17.63			1.00 54.30	6
MOTA	1697 CE	LYS A 214	17.03			1.00 56.09	7
ATOM	1698 NZ	LYS A 214 LYS A 214	21.80	·		1.00 44.22	6
ATOM	1699 C 1700 O	LYS A 214	22.21		65.942	1.00 45.04	8
ATOM	1700 O 1701 N	GLY A 215	21.29			1.00 42.89	7 6
ATOM	1701 K	GLY A 215	21.19		66.373	1.00 40.20	6
MOTA	1702 CA	GLY A 215	22.29				8
ATOM ATOM	1704 0	GLY A 215	22.35				7
ATOM	1705 N	TYR A 216	23.17				6
ATOM	1706 CA	TYR A 216	24.26			45	6
MOTA	1707 CB	TYR A 216	25.63			-	6
ATOM	1708 CG	TYR A 216	25.93				6
ATOM		TYR A 216	25.29	6 13.22 1 12.33			6
ATOM	1710 CE		25.56		-		6
ATOM	1711 CD2		26.85 27.12			1.00 40.87	6
- ATOM	1712 CE2		26.47			1.00 41.86	6
ATOM	1713 CZ	TYR A 216 TYR A 216	26.74		2 69.852	1.00 43.04	. 8
atom		TYR A 216	24.18		5 64.709	1.00 34.21	
ATOM		TYR A 216	25.19		2 64.375	5 1.00 33.37	8
ATOM	2.20				•		
•							

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			ASN A 217		22.976	17.471	64.212	1.00 33.83	7
MOTA	1717	N	ASN A ZI			18.558	63.267	1.00 30.20	6
ATOM	1718	CA	ASN A 217		22.726			1.00 30.00	
		CB	ASN A 217		22.699	18.057	61.823	1.00 27.74	6
MOTA	1719		ASIN A 217			19.177	60.826	1.00 25.61	6
MOTA	1720	CG	ASN A 217		22.457				8
	1721	OD1	ASN A 217		21.354	19.705	60.719	1.00 25.00	
MOTA	-				23.501	19.558	60.103	1.00 30.43	7
MOTA	1722	ND2	ASN A 217					1.00 29.09	6
MOTA	1723	С	ASN A 217		21.369	19.116	63.645		
			ASN A 217		20.433	18.351	63.885	1.00 26.93	8
ATOM	1724	0					63.710	1.00 27.19	7
ATOM	1725	N	LEU A 218		21.263	20.440			
			LEU A 218		20.010	21.071	64.089	1.00 25.33	6
MOTA	1726	CA				21.379	65.590	1.00 23.23	ó
MOTA	1727	CB	LEU A 218		20.026				6
	1728	CG	LEU A 218		18.729	21.704	66.346	1.00 21.00	
MOTA					19.100	22.313	67.695	1.00 18.62	6
MOTA	1729	CD1	LEU A 218					1.00 18.48	6
MOTA	1730	CD2	LEU A 218		17.872	22.675	65.583		
		C	LEU A 218		19.785	22.368	63.325	1.00 25.04	6
ATOM	1731					23.287	63.415	1.00 25.23	8
MOTA	1732	0	LEU A 218		20.596				7
	1733	N	ASN A 219		18.681	22.436	62.584	1.00 28.44	
MOTA		•	201 7 210		18.310	23.636	61.829	1.00 28.76	6
ATOM	1734	CA	ASN A 219			23.000		1.00 25.69	6
MOTA	1735	CB	ASN A 219		17.809	23.298	60.417		
		CG	ASN A 219		18.748	22.408	59.646	1.00 26.10	6
ATOM	17.36					22.708	59.505	1.00 28.53	8
ATOM	1737	OD1	ASN A 219		19.927			1.00 26.97	7
	1738	ND2	ASN A 219		18.220	21.311	59.114		
MOTA	_		1637 3 310		17.129	24.248	62.582	1.00 31.96	6
ATOM	1739	С	ASN A 219	•			63.246	1.00 34.84	8
ATOM	1740	0	ASN A 219		16.373	23.539			7
	1741	N	ILE A 220		16.952	25.556	62.472	1.00 32.96	
MOTA					15.826	26.196	63.129	1.00 32.50	6
ATOM	1742	CA	ILE A 220				64.350	1.00 32.32	6 ·
ATOM	1743	CB	ILE A 220		16.259	27.037			6
	1744	CG2	ILE A 220		15.029	27.644	65.014	1.00 29.46	
MOTA					16.978	26.160	65.374	1.00 29.65	6
MOTA	1745	CG1	ILE A 220		16.080	25.138	66.027	1.00 28.65	6
MOTA	1746	CDl						1.00 35.36	6
ATOM	1747	С	ILE A 220		15.140	27.106	62.123		
	1748	ō	ILE A 220		15.469	28.290	62.009	1.00 35.52	8
MOTA					14.185	26.553	61.359	1.00 36.87	7
MOTA	1749	N	PRO A 221				61.359	1.00 35.12	6
MOTA	1750	CD	PRO A 221 -		13.718	25.158			6
	1751	CA	PRO A 221		13.445	27.318	60.356	1.00 35.41	
MOTA			PRO A 221		12.509	26.262	59.767	1.00 35.68	6
ATOM	1752	CB				24.992	59.911	1.00 33.86	6
ATOM	1753	CG	PRO A 221		13.319			1.00 34.37	. 6
ATOM	1754	Ċ	PRO A 221		12.696	28.437	61.053		
	1755	ō	PRO A 221		12.014	28.199	62.043	1.00 38.79	8
MOTA			FRO A 221		12.815	29.655	60.547	1.00 34.76	7
MOTA	1756	N	LEU A 222					1.00 33.87	6
ATOM	1757	CA	LEU A 222		12.138	30.796	61.166		
	1758	CB	LEU A 222		13.173	31.735	61.798	1.00 35.13	6
MOTA					14.104	31.163	62.876	1.00 33.07	6
MOTA	1759	CG	LEU A 222					1.00 34.04	6
ATOM	1760	CD1	LEU A 222		15.234	32.150	63.154		· 6
	1761	CD2	LEU A 222		13.312	30.856	64.141	1.00 32.39	
MOTA			> 222		11.287	31.567	60.157	1.00 32.15	б
MOTA	1762	C	LEU A 222			31.740	59.000	1. 0 31.32	8
ATOM	1763	0	LEU A 222		11.669	31.740		1. 5 31.55	7
	1764	N	PRO A 223		10.127	32.060	60.601	1.1つ 30.97	
ATOM			770 7 223		9.606	31.913	61.972	1.00 32.34	6
MOTA	1765	CD	PRO A 223				59.789	1.00 30.55	6
ATOM	1766	CA	PRO A 223		9.173	32.818			
	1767	CB	PRO A 223		7.957	32.893	50.702	1.00 29.44	6
ATOM					8.626	33.068	62.046	1.00 31.02	6
ATOM	1768	CG	PRO A 223				59.366	1.00 29.20	6
ATOM	1769	С	PRO A 223		9.645				
	1770	0	PRO A 223		10.694	34.680	59.796	1.00 31.95	8
MOTA					8.841		58.521	1.00 26.14	7
MOTA	1771	N	LYS A 224				58.026	·	6
ATOM	1772	CA	LYS A 224		9.115				
	1773	СВ	LYS A 224		8.285	36.443	56.766		6
MOTA			PID U 224		8.563			1.00 23.83	6
MOTA	1774	CG	LYS A 224						6
ATOM	1775	CD	LYS A 224		7.737				6
			LYS A 224		8.065	34.769	53.329		0
MOTA	1776		**** > 224		7.198		52.122	1.00 30:48	7
ATOM	1777		LYS A 224						6
ATOM	1778	С	LYS A 224		. 8 . 702				8
	1779		LYS A 224		7.999	36.780			
ATOM			GLY A 225		9.124		58.960	1.00 26.88	7
ATOM	1780		GLI A 223						6
ATOM	1781	CA	GLY A 225		8.777				6
3 TOM			GLY A 225	•	9.396	39.188	61.286	1.00 32.96	. •
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		ar 15 3 3 3 5	9.068	39.861	62.271		8
ATOM	1783 0	GLY A 225		38.216	61.338	1.00 32.86	7
MOTA	1784 N	LEU A 226	10.233	37.877	62.575		6
MOTA	1785 C	A LEU A 226					6
ATOM	1786 C	B LEU A 226	12.149	36.958	63.407	1.00 34.48	6
ATOM	1787 C	G LEU A 226	12.982	36.413	64.212	1.00 33.18	6
ATOM	1788	D1 LEU A 226	12.146	35.425	• • • • • • • • • • • • • • • • • • • •	1.00 31.39	6
	1789	D2 LEU A 226	14.207	35.724		1.00 36.29	6
MOTA	1790		11.481	39.160	63.255		8
MOTA	1791	000	12.156	39.970	62.613	1.00 33.87	7
MOTA			11.131	39.358	64.531	1.00 37.31	
MOTA		007	11.592	40.536	65.279	1.00 37.26	6
MOTA			10.444	41.212	66.053	1.00 35.57	6
MOTA			9.920	40.368	67.208	1.00 36.07	6
MOTA	_	G ASN A 227	10.678	39.940	68.089	1.00 35.08	8
MOTA	1796	DD1 ASN A 227	8.611	40.143	67.218	1.00 32.33	7
ATOM		ND2 ASN A 227		40.096	66.259	1.00 37.95	6
ATOM	1798	C ASN A 227	12.688	38.890	66.473	1.00 37.08	8
MOTA	1799	O ASN A 227	12.869	41.063	66.832	1.00 36.07	7
ATOM	1800	N ASP A 228	13.403		67.751	1.00 37.63	6
ATOM		CA ASP A 228	14.505	40.754	68.486	1.00 36.48	6
MOTA		CB ASP A 228	14.996	42.007	67.545	1.00 37.52	6
ATOM		CG ASP A 228	15.480	43.088	_	1.00 37.32	8
	1804	OD1 ASP A 228	15.936	42.752	66.427	1.00 33.25	8
MOTA	1805	OD2 ASP A 228	15.426	44.274	67.937		6
MOTA		C ASP A 228	14.204	39.678	68.783	1.00 37.56	
MOTA		O ASP A 228	14.921	38.678	68.869	1.00 39.53	8
MOTA	1807	N ASN A 229	13.155	39.889	69.572	1.00 38.37	7
MOTA			12.766	38.935	70.605	1.00 37.49	6
MOTA	1809		11.422	39.352	71.200	1.00 37.38	6
MOTA	1810		11.490	40.709	71.877	1.00 40.47	6
ATOM	1811	CG ASN A 229	12.041	40.840	72.973	1.00 41.76	8
ATOM	1812	OD1 ASN A 229	10.960	41.735	71.212	1.00 36.50	7
ATOM	1813	ND2 ASN A 229	12.680	37.530	70.017	1.00 37.64	6
MOTA	1814	C ASN A 229		36.634		1.00 35.76	8
ATOM	1815	O ASN A 229	13.446	37.351		1.00 36.01	7
MOTA	1816	N GLU A 230	11.758			1.00 34.74	6
ATOM	1817	CA GLU A 230	11.574	36.062 36.2 4 2		1.00 35.55	6
ATOM	1818	CB GLU A 230	10.753			1.00 36.95	6
ATOM	1819	CG GLU A 230	9.382	36.820		1.00 35.30	6
ATOM	1820	CD GLU A 230	8.580	36.960		1.00 36.98	8
ATOM	1821	OE1 GLU A 230	9.042	37.670		1.00 36.71	8
MOTA	1822	OE2 GLU A 230	7.490			1.00 33.92	6
ATOM	1823	C GLU A 230	12.916			1.00 33.74	8
ATOM	1824	O GLU A 230	13.143		68.346	1.00 32.74	7
	1825	N PHE A 231	13.804	36.207	67.487	1.00 30.55	6
ATOM	1826	CA PHE A 231	15.116		67.123		6
MOTA	1827	CB PHE A 231	15.932				6
MOTA	1828	CG 'HE A 231	17.295	36.381			6
MOTA		CD1 HE A 231	17.438	35.334			6
MOTA	1829	CD2 .HE A 231	18.436	37.02			6
ATOM	1830	CE1 PHE A 231	18.709	34.93			
MOTA	1831	CE2 PHE A 231	19.711		2 66.049	1.00 39.07	6
MOTA	1832		19.849		6 65.137		6
ATOM	1833	CZ PHE A 231	15.83			1.00 30.63	6
ATOM	1834	C PHE A 231	16.17			1.00 29.66	8
ATOM	1835	O PHE A 231	16.049			1.00 24.94	7
MOTA	1836	N LEU A 232					6
ATOM	1837	CA LEU A 232	16.743				6
ATOM	1838	CB LEU A 232	16.72			00 24	6
ATOM	1839	CG LEU A 232	17.50				6
MOTA		CD1 LEU A 232	17.31	6 39.54			6
		CD2 LEU A 232	18.99				6
MOTA		C LEU A 232	16.15				8
MOTA		O LEU A 232	16.88				
ATOM		N PHE A 233	14.82				
ATOM		CA PHE A 233	14.13				
ATOM		CB PHE A 233	12.62	3 33.53	5 71.64		
ATOM		CG PHE A 233	11.81	1 32.37	72.15		
ATOM		CD1 PHE A 233	11.49			3 1.00 25.59	, 0
MOTA	1848	CDI PHD GDC	•		-	•	

MOTA

96/263 Figure 17-29

71.284 1.00 25.75 31.397 11.339 CD2 PHE A 233 1849 ATOM 1.00 25.33 6 73.974 31.198 10.698 CE1 PHE A 233 1850 MOTA 71.747 6 1.00 24.02 10.548 30.327 CE2 PHE A 233 1851 MOTA 6 73.093 1.00 22.77 30.232 10.228 PHE A 233 CZ 1852 MOTA 1.00 26.64 71.275 6 32.133 PHE A 233 14.661 1853 С MOTA 1.00 28.34 71.971 31.209 15.094 PHE A 233 1854 0 ATOM-1.00 27.27 69.949 32.087 14.624 ALA A 234 1855 Ν MOTA 1.00 30.24 6 69.209 30.921 15.080 ALA A 234 1856 CA 1.00 33.38 1.00 30.76 1.00 30.04 MOTA 67.720 31.107 14.797 ALA A 234 1857 CB MOTA 6 69.433 30.645 16.563 ALA A 234 1858 С MOTA 69.488 29.491 16.981 ALA A 234 1859 0 1.00 31.84 MOTA 69.563 69.790 17.363 31.695 **LEU A 235** 1860 N ATOM 1.00 32.83 18.789 31.486 LEU A 235 1861 CA MOTA 69.703 1.00 34.12 6 32.819 19.548 LEU A 235 CB 1862 MOTA 6 1.00 36.33 21.039 32.745 69.316 LEU A 235 1863 CG MOTA 69.205 1.00 36.44 6 21.625 34.156 CD1 LEU A 235 1864 MOTA 70.330 1.00 35.64 31.939 21.803 CD2 LEU A 235 1865 1.00 30.75 MOTA 30.846 71.176 18.970 LEU A 235 ATOM 1866 С 1.00 30.12 71.312 19.648 29.835 LEU A 235 1867 0 MOTA 1.00 29.03 7 72.192 18.347 31.435 GLU A 236 1868 N 1.00 33.32 1.00 35.06 MOTA 6 73.561 30.931 18.418 **GLU A 236** CA 1869 ATOM 74.452 17:479 31.730 **GLU A 236** 1870 CB ATOM 1.00 42.35 33.176 74.635 17.843 **GLU A 236** MOTA 1871 CG 1.00 47.12 74.843 34.022 16.610 GLU A 236 CD 1872 MOTA 1.00 48.91 8 75.556 33.557 OE1 GLU A 236 15.686 1873 1.00 49.07 MOTA 74.297 16.572 35.150 OE2 GLU A 236 1874 ATOM 1.00 34.65 6 73.639 17.988 29.473 GLU A 236 C MOTA 1875 1.00 30.43 28.593 74.116 GLU A 236 18.715 0 1876 MOTA 1.00 35.67 73.176 16.767 29.250 LYS A 237 16.138 1877 N ATOM 6 73.175 27.943 1.00 35.51 LYS A 237 1878 CA ATOM 1.00 37.01 28.060 72.452 14.791 LYS A 237 1879 CB MOTA 1.00 39.65 72.848 13.745 27.032 1880 LYS A 237 CG MOTA 1.00 40.66 6 73.821 12.712 27.605 LYS A 237 1881 CD MOTA 1.00 40.58 28.054 75.153 13.312 LYS A 237 1882 CE MOTA 76.083. 1.00 32.05 7 28.556 12.250 LYS A 237 NZ 1883 1.00 35.07 ATOM 6 72.485 17.025 26.891 LYS A 237 LYS A 237 1884 С MOTA 8 73.061 1.00 30.60 17.315 25.833 0 1885 1.00 33.59 MOTA 27.200 71.259 SER A 238 17.455 N 1886 MOTA 1.00 32.18 26.293 70.452 18.279 SER A 238 CA 1887 1.00 32.01 MOTA 26.867 69.042 18.453 SER A 238 1888 CB MOTA 69.075 1.00 37.80 28.168 SER A 238 SER A 238 19.014 1889 OG MOTA 1.00 31.94 71.032 19.650 25.928 1890 C 1.00 26.88 MOTA 24.758 70.990 20.064 SER A 238 1891 О MOTA 1.00 31.19 7 71.564 26.920 20.357 **LEU A 239** 1892 Ν 1.00 30.82 MOTA 6 72.147 26.650 21.660 **LEU A 239** 1893 CA MOTA 1.00 28.03 72.720 22.293 27.914 **LEU A 239** CB 1894 1.00 24.31 MOTA (71.817 29.087 CG LEU A 239 CD1 LEU A 239 22.650 ATOM 1895 1.00 24.63 72.695 30.189 23.210 1896 1.00 23.11 MOTA 70.770 28.681 23.663 CD2 LEU A 239 1897 MOTA 1.00 31.99 73.275 21.463 25.666 LEU A 239 1898 C٠ MOTA 1.00 32.57 8 73.473 24.764 LEU A 239 22.279 1899 0 1.00 33.86 7 MOTA 74.009 25.835 20.367 **GLU A 240** 1900 N 1.00 38.61 MOTA 75.136 6 24.965 20.094 GLU A 240 1901 CA 6 ATOM 1.00 43.21 75.842 18.799 25.369 **GLU A 240** CB 1902 MOTA 1.00 53.52 6 77.045 18.500 24.468 **GLU A 240** CG 1903 1.00 56.39 6 ATOM 78.022 24.383 19.677 GLU A 240 1904 CD ATCM 78.701 1.00 57.81 8 19.969 25.399 CE1 GLU A 240 1905 8 1.00 55.12 ATOM 78.093 23.304 OE2 GLU A 240 20.318 1906 1.00 39.28 ATOM 74.722 23.507 GLU A 240 20.033 1907 С 1.00 38.83 MOTA 8 75.437 22.630 **GLU A 240** 20.532 1908 0 7 1.00 40.74 ATOM 73.567 19.423 23.252 ILE A 241 1909 N 1.00 38.08 6 ATOM 73.035 19.310 21.896 ILE A 241 1910 CA1.00 33.57 6 MOTA 71.734 21.871 18.465 ILE A 241 1911 CB 1.00 31.39 ATOM 71.086 18.536 20.506 CG2 ILE A 241 1912 1.00 31.06 ATCM 22.226 72.056 17.012 CG1 ILE A 241 1913 1.00 27.53 ATOM 70.843 16.147 22.478 CD1 ILE A 241 1914

	1015 C	ILE A 241		20.713	21.372		1.00 39.56	6
ATOM	1915 C	ILE A 241			20.189	72.936		8
ATOM	1916 0	10E W 241			22.254	72.299	1.00 41.93	7
MOTA	1917 N	VAL A 242		22.979	21.842	72.015	1.00 45.09	6
ATOM	1918 CA	VAL A 242		23.808	22.959	71.329	1.00 45.76	6
MOTA	1919 CB	VAL A 242		25.242	22.479	71.116	1.00 43.09	6
ATOM	1920 CG	1 VAL A 242				69.991	1.00 46.41	6
MOTA	1921 CG	2 VAL A 242		23.182	23.334	73.300	1.00 45.69	6
ATOM	1922 C	VAL A 242		23.698	21.453	73.300	1.00 46.30	8
ATOM	1923 0	VAL A 242		24.191	20.331		1.00 44.60	7
ATOM	1924 N	LYS A 243		23.750	22.373	74.259	1.00 46.96	6
	1925 CA			24.427	22.088	75.513		6
MOTA	1926 CB			24.214	23.217	76.527	1.00 49.49	
ATOM	1920 CD	1		25.061	23.023	77.795	1.00 54.90	6
ATOM				24.652	23.934	78.939	1.00 58.95	6
MOTA				24.782	25.399	78.577	1.00 64.13	6
ATOM				24.274	26.283	79.676	1.00 66.93	7
ATOM	1930 NZ	LYS A 243		23.965	20.767	76.135	1.00 47.06	6
MOTA	1931 C	LYS A 243		24.735	20.113	76.845	1.00 46.39	8
MOTA	1932 0	GLU A 244		22.716	20.380	75.878	1.00 47.51	7
MOTA	1933 N			22.172	19.136	76.429	1.00 51.33	6
MOTA	1934 CA	CLU A 244		20.650	19.061	76.259	1.00 54.49	6
MOTA	1935 CE	GLU A 244		19.843	20.199	76.842	1.00 62.61	6
ATOM	1936 CG			18.360	20.089	76.489	1.00 65.15	6
MOTA	1937 CI	GLU A 244		17.572	20.980	76.888	1.00 66.49	8
MOTA		E1 GLU A 244		17.986	19.108	75.807	1.00 64.82	8
ATOM	1939 OF	2 GLU A 244		22.745	17.936	75.698	1.00 50.17	6
MOTA	1940 C	GLU A 244		22.866	16.846	76.259	1.00 51.54	8
MOTA	1941 0	GLU A 244			18.148	74.441	1.00 47.70	7
ATOM	1942 N		•	23.104	17.063	73.611	1.00 45.43	6
MOTA	1943 C			23.587	16.980	72.336	1.00 48.47	6
MOTA	1944 CI	B VAL A 245		22.704	15.765	71.499	1.00 51.87	6
ATOM	1945 C	G1 VAL A 245		23.082		72.731	1.00 45.65	6
ATOM	1946 C	G2 VAL A 245		21.226	16.934	73.185	1.00 43.01	6
ATOM	1947 C	VAL A 245		25.056	17.070		1.00 39.28	8
ATOM	1948 0	VAL A 245		25.620	16.005		1.00 40.53	7
ATOM	1949 N	PHE A 246		25.682	18.245		1.00 38.56	6
ATOM	1950 C	A PHE A 246		27.063	18.321		1.00 36.85	6
ATOM	1951 C	B PHE A 246		27.023	18.700		1.00 36.46	6
ATOM	1952 C	G PHE A 246		28.315	18.487		1.00 32.95	6
ATOM	1953 C	D1 PHE A 246		28.749	17.201		1.00 35.51	6
ATOM		D2 PHE A 246		29.064			1.00 33.80	6
ATOM		E1 PHE A 246		29.903				6
MOTA		E2 PHE A 246		30.222				6
ATOM		Z PHE A 246		30.640				6
ATOM	1958	PHE A 246		27.970				8
ATOM	1959	PHE A 246		27.613		73.549		7
ATOM	1960 N	> 0.47		29.141	18.839			6
ATOM		A GLU A 247		30.128		74.467		6
ATOM		B GLU A 247		30.655				6
		G GLU A 247		29.763				
MOTA		D GLU A 247		28.478	18.42			8
MOTA	1965	DE1 GLU A 247		27.645	18.64	4 76.058		8
ATOM	1966	DE2 GLU A 247		28.296	17.55	77.84		6
ATOM		GLU A 247		31.268				0
ATOM				32.077		1 73.29		8
MOTA				31.342			1.00 43.65	7
MOTA		^ ^ ^		30.439		3 72.86	3 1.00 42.73	6
ATOM				32.37		0 71.77	9 1.00 43.28	6
atom		CA PRO A 248		31.80		0 71.04	2 1.00 43.03	6
ATOM		CB PRO A 248		30.31			5 1.00 43.02	6
ATOM		CG PRO A 248		33.75			1 1.00 43.37	6
ATOM	1974	C PRO A 248		33.89			5 1.00 45.44	8
ATOM	1975	O PRO A 248					0 1.00 42.38	7
ATOM	1976	N GLU A 249		34.78			6 1.00 41.56	6
ATOM	1977	CA GLU A 249		36.15				, 6
ATOM	1978	CB GLU A 249		37.14		-		, 6
ATOM		CG GLU A 249		36.93) 6
ATOM		CD GLU A 249		38.01	5 17.90	,, ,1.23	-	
			•					



98/263

		-m1 CT !! 3 340	38.208	17.938	70.054	1.00 42.47	8
ATOM		OE1 GLU A 249	38.666			1.00 39.73	8
ATOM		OE2 GLU A 249			71.583	1.00 40.99	6
ATOM		C GLU A 249	36.443		72.204	1.00 42.83	8
ATOM	1984	O GLU A 249	37.150	23.450		1.00 37.65	7
ATOM	1985	N VAL A 250	35.879	22.936	70.407		6
ATOM	1986	CA VAL A 250	36.059	24.221	69.728	1.00 34.87	
ATOM	1987	CB VAL A 250	37.294	24.203	68.789	1.00 34.53	6
MOTA	1988	CG1 VAL A 250	37.129	23.113	67.728	1.00 32.76	6
	1989	CG2 VAL A 250	37.487	25.581	68.144	1.00 29.62	6
ATOM	1990	C VAL A 250	34.830	24.527	68.891	1.00 32.67	5
MOTA			34.162	23.610	68.421	1.00 33.96	8
ATOM	1991		34.539	25.810	68.690	1.00 29.71	7
MOTA	1992		33.368	26.183	67.916	1.00 27.07	5
MOTA	1993		32.185	26.451	68.860	1.00 29.11	6
ATOM	1994		32.080	27.872	69.406	1.00 31.46	6
MOTA	1995	CG TYR A 251	31.553	28.903	68.622	1.00 31.14	6
MOTA	1996	CD1 TYR A 251		30.196	69.106	1.00 31.66	6
MOTA	1997	CE1 TYR A 251	31.439	28.181	70.696	1.00 30.20	6
MOTA	1998	CD2 TYR A 251	32.494		71.193	1.00 33.89	6
MOTA	1999	CE2 TYR A 251	32.384	29.477	70.391	1.00 34.75	6
ATOM	2000	CZ TYR A 251	31.854	30.482		1.00 33.52	8
MOTA	2001	OH TYR A 251	31.743	31.773	70.867	1.00 33.32	6
ATOM	2002	C TYR A 251	33.570	27.384	66.992	1.00 27.48	8
ATOM	2003	O TYR A 251	34.167	28.402	67.366		7
ATOM	2004	N LEU A 252	33.063	27.254	65.773	1.00 24.80	
ATOM	2005	CA LEU A 252	33.150	28.332	64.815	2.00 23.40	6
MOTA	2006	CB LEU A 252	33.631	27.810	63.451	1.00 21.32	6
ATOM	2007	CG LEU A 252 *	35.126	27.456	63.385	1.00 21.84	6
ATOM	2008	CD1 LEU A 252	35.457	26.373	64.395	1.00 22.51	6
	2009	CD2 LEU A 252	35.499	26.999	61.9 86	1.00 22.07	6
ATOM	2010	C LEU A 252	31.762	28.959	64.729	1.00 22.56	6
ATOM	2011	O LEU A 252	30.750	28.266	64.856	1.00 21.99	8
ATOM	2011	N LEU A 253	31.734	30.277	64.554	1.00 21.01	7
ATOM			30.498	31.047	64.461	1.00 18.89	6
MOTA	2013		30.352	31.944	65.695	1.00 20.05	6
MOTA	2014		29.198	32.942	65.842	1.00 21.61	6
ATOM	2015		27.849	32.220	65.860	1.00 22.23	6
MOTA	2016	CD1 LEU A 253	29.395	33.716	67.145	1.00 22.90	6
atom	2017	CD2 LEU A 253	30.539	31.901	63.198	1.00 20.05	6
ATOM	2018	C LEU A 253	31.466	32.691	62.987	1.00 18.17	8
ATOM	2019	O LEU A 253	29.544	31.720	62.340	1.00 19.40	7
MOTA	2020	N GLN A 254	29.488	32.490	61.115	1.00 18.17	6
MOTA	2021	CA GLN A 254	29.017	31.592	59.969	1.00 9.67	6
MOTA	2022	CB GLN A 254		31.713	59.601	1.00 18.43	6
ATOM	2023	CG GLN A 254	27.584	32.766	58.549	1.00 19.97	6
ATOM	2024	CD GLN A 254	27.368	32.700	57.450	1.00 22.54	8
MOTA	2025	OE1 GLN A 254	27.917		58.869	1.00 22.89	7
MOTA	2026	NE2 GLN A 254		33.769 33.634	61.444	1.00 19.75	6
MOTA	2027	C GLN A 254	28.520		62.060	1.00 18.77	8
ATOM	2028	O GLN A 254	27.470	33.415		1.00 23.02	7
MOTA	2029	N LEU A 255	28.905	34.854	61.067	1.00 23.77	6
ATOM	2030	CA LEU A 255	28.132	36.052	61.369		6
ATOM	2031	CB LEU A 255	28.963	36.993	62.242	1.00 20.84	6
ATOM	2032	CG LEU A 255	29.226	36.556	63.684		6
ATOM	2033	CD1 LEU A 255	30.196	37.520	64.331	1.00 30.65	
ATOM	2034	CD2 LEU A 255	27.902	36.506	64.456	1.00 28.42	6
	2035	C LEU A 255	27.605	36.842	60.197		6
MOTA	2036	O LEU A 255	27.774	38.066	60.149		8
MOTA		2 256	26.969	36.158	59.254	1.00 25.07	7
MOTA	2037	N GLY A 256 CA GLY A 256	26.408		58.117	1.00 26.11	6
ATOM	2038		25.506		58.644	1.00 27.11	6
ATOM	2039		24.742		59.584	1.00 25.67	8
atom	2040	O GLY A 256	25.599			1.00 27.85	7
ATOM	2041	N THR A 257	24.757		58.536	1.00 29.28	5
MOTA	. 2042	CA THR A 257	25.517	_		1.00 27.98	ć
ATOM	2043	CB THR A 257	26.002				8
ATOM	2044	OG1 THR A 257	26.686				6
ATOM	2045	CG2 THR A 257					6
MOTA	2046	C THR A 257	23.477	40.392			

							070	1.00 29.49	8
MOTA	2047	0	THR A 257		22.747	41.370	57.879	1.00 29.43	
			ASP A 258		23.192	39.414	56.867	1.00 29.13	7
ATOM	2048	N	100 N 150		21.977	39.471	56.065	1.00 30.49	6
MOTA	2049	CA	ASP A 258				54.933	1.00 28.22	6
MOTA	2050	CB	ASP A 258		22.004	38.432		1.00 29.39	6
	2051	CG	ASP A 258		22.337	37.033	55.416		
MOTA		001	ASP A 258		21.893	36.653	56.520	1.00 30.16	8
MOTA	2052	ODI	MSF A 230			36.292	54.667	1.00 29.97	8
ATOM	2053	OD2	ASP A 258		23.019			1.00 30.50	6
ATOM	2054	С	ASP A 258	•	20.646	39.355	56.826		
	2055	Ō	ASP A 258		19.601	39.622	56.248	1.00 32.87	8
MOTA			PRO A 259		20.650	38.912	58.101	1.00 30.76	7
ATOM	2056	Ŋ				38.338	58.952	1.00 33.56	6
ATOM	2057	CD	PRO A 259	-	21.711	-		1.00 31.73	6
ATOM	2058	CA	PRO A 259		19.366	38.821	58.806		-
	2059	СВ	PRO A 259		19.705	37.912	59.987	1.00 31.87	6
MOTA			PRO A 259		21.067	38.373	60.333	1.00 31.73	6
MOTA	2060	CG				40.184	59.260	1.00 30.86	6
ATOM	2061	С	PRO A 259		18.817			1.00 29.78	8 .
ATOM	2062	0	PRO A 259		17.736	40.270	59.84-5		7
	2063	N	LEU A 260		19.565	41.245	58.980	1.00 29.58	
ATOM			LEU A 260		19.161	42.592	59.375	1.00 29.15	6
MOTA	2064	CA		•	20.367	43.542	59.275	1.00 27.14	6
ATOM	2065	CB	LEU A 260				60.234	1.00 22.17	6
ATOM	2066	CG	LEU A 260		21.543	43.286		1.00 15.79	6
ATOM	2067	CD1	LEU A 260		22.794	43.919	59.684		
		CD2			21:211	43.793	61.633	1.00 16.25	6
MOTA	2068		LEO A 200		17.992	43.165	58.576	1.00 28.09	6
MOTA	2069	С	LEU A 260			42.834	57.410	1.00 29.61	8
ATOM	2070	0	LEU A 260		17.787			1.00 29.29	7
ATOM	2071	N	LEU A 261		17.237	44.044	59.223		6
	2072	CA	LEU A 261		16.097	44.693	58.596	1.00 29.71	
ATOM			LEU A 261		15.540	45.788	59.513	1.00 29.62	6
MOTA	2073	CB			14.406	46.664	58.950	1.00 28.14	6
MOTA	2074	CG	LEU A 261			45.819	58.803	1.00 24.82	6
MOTA	2075	CD1	LEU A 261		13.144			1.00 25.45	6
ATOM	2076	CD2	LEU A 261		14.139	47.859	59.882	1.00 25.45	
	2077	c	LEU A 261		16.461	45.322	57.259	1.00 29.50	6
MOTA			LEU A 261		15.717	45.198	56.295	1.00 31.67	8
MOTA	2078	0			17.603	45.998	57.201	1.00 31.54	7
MOTA	2079	N	GLU A 262				55.973	1.00 31.93	6
ATOM	2080	CA	GLU A 262		18.015	46.664		1.00 29.34	6
ATOM	2081	CB	GLU A 262		19.049	47.758	56.279	1.00 29.34	
		CG	GLU A 262		18.496	48.931	57.086	1.00 28.52	6
ATOM	2082				18.449	48.687	58.589	1.00 29.76	6
MOTA	2083	CD	GLU A 262			47.548	59.029	1.00 30.12	8
MOTA	2084	OE:			18.175		59.338	1.00.27.69	8
MOTA	2085	OE:	2 GLU A 262		18.661	49.661		1.00 34.29	6
MOTA	2086	С	GLU A 262		18.526	45.754	54.857		
	2087	ō	GLU A 262		18.690	46.199	53.722	1.00 35.20	8
MOTA			ASP A 263		18.778		55.158	1.00 36.55	7
MOTA	2088	N	ASP A 203	'			54.117		6
MOTA	2089	CA	ASP A 263	•	19.245	_	54.641		6
ATOM	2090	CB	ASP A 263	i	20.354				6
ATOM	2091	CG	ASP A 263	•	20.982				
	2092	OD.	1 ASP A 263	1	22.064	11.263	53.762		8
MOTA		00	2 200 3 263	ı	20.384		52.443	1.00 39.50	8
MOTA	2093		2 ASP A 263	,	18.046				6
ATOM	2094	С	ASP A 263	}					8
MOTA	2095	0	ASP A 263	}	17.474				7
	2096		TYR A 264	l	17.673	43.002			
MOTA				ı	16.508		51.796	1.00 46.67	6
ATOM	2097				16.031			1.00 54.61	6
MOTA	2098	CB							6
MOTA	2099	CG	TYR A 264		16.824				6
ATOM	2100		1 TYR A 26	1	16.510	41.897	48.412		
				1	17.230	41.709	47.226		6
MOTA	2101				17.882			1.00 66.23	. 6
MOTA	2102								6
MOTA	2103	CE	2 TYR A 26		18.611	43.606			6
ATOM	2104			4	18.279				8
	2105				18.989	42.41			0
ATOM			TYR A 26		16.66			1 1.00 43.89	6
ATOM	2106				15.66		1		8
ATOM	2107	0	TYR A 26						7
ATOM	2108		LEU A 26	5	.17 . 89				6
	2109				18.05	38.98	4 51.01		
ATOM					19.47	4 38.64	6 50.53	8 1.00 33.48	6
ATOM	2110				19.90			2 1.00 32.43	6
ATCM	2111								6
's TOM	2112	CI	01 LEU A 26	5	21.17	6 38.53	30.70		

- mow	2113	CD2	LEU A 265		18.828	38.954		1.00 34.41	6
ATOM ATOM	2114	C	LEU A 265		17.665	38.131		1.00 37.41	6
MOTA	2115		LEU A 265		18.125	37.000	52.370	1.00 37.96	8
MOTA	2116	N	SER A 266		16.804	38.694	53.066	1.00 36.21	7
ATOM	2117		SER A 266		16.294	38.013	54.253	1.00 36.46	6
ATOM -	2118		SER A 266		17.263	38.136	55.427	1.00 37.22	6
ATOM	2119	OG	SER A 266		17.190	39.440	55.991	1.00 37.41	8 6 ·
MOTA	2120	С	SER A 266		14.997	38.705	54.653	1.00 35.55 1.00 37.09	8
ATOM	2121	0	SER A 266		14.889	39.927	54.568	1.00 37.09	7
MOTA	2122		LYS A 267		14.018	37.928	55.093	1.00 34.33	6
MOTA	2123	CA	LYS A 267		12.750	38.493	55.532 55.183	1.00 36.13	6
ATOM	2124	CB	LYS A. 267		11.596	37.548	53.705-	1.00 36.79	6
ATOM	2125	CG	LYS A 267	•	11.503	37.222	52.869	1.00 38.55	6
MOTA	2126	CD	LYS A 267		11.453	38.487 38.170	51.389	1.00 41.60	6
ATOM	2127	CE	LYS A 267		11.369 11.503	39.413	50.569	1.00 42.07	7 -
ATOM	2128	NZ	LYS A 267		12.791		57.043	1.00 34.90	6
MOTA	2129	С	LYS A 267		11.758	38.867	57.694	1.00 37.18	8
ATOM	2130	0	LYS A 267 PHE A 268		13.998	38.775	57.595	1.00 32.82	7
ATOM	2131	N	PHE A 268		14.192	39.021	59.016	1.00 31.50	6
MOTA	2132	CA	PHE A 268		15.477	38.337	59.495	1.00 34.05	6
MOTA	2133 2134	CB CG	PHE A 268	٠	15.379	36.839	59.604	1.00 34.54	6
MOTA	2134		PHE A 268		16.506	36.087	59.940	1.00 35.04	6
MOTA	2136	CD2	PHE A 268		14.161	36.178	59.429	1.00 34.57	6
MOTA MOTA	2137	CE1	PHE A 268		16.423	34.691	60.108	1.00 35.44	6
ATOM	2138	CE2	PHE A 268		14.066	34.784	59.594	1.00 36.00	6
ATOM-	2139	CZ	PHE A 268		15.201	34.040	59.936	1.00 34.68	6 6
MOTA	2140	С	PHE A 268		14.319	40.530	59.190	1.00 30.94 1.00 30.27	8
ATOM	2141	0	PHE A 268		14.983	41.192	58.394	1.00 30.27	7
ATOM	2142	N	ASN A 269		13.693	41.081	60.222	1.00 32.33	6
ATOM	2143	CA	ASN A 269		13.760	42.527	60.448 60.570	1.00 37.23	6
MOTA	2144	CB	ASN A 269		12.344	43.115 42.809		1.00 40.75	6
MOTA	2145	CG	ASN A 269		11.478 11.830	43.148	58.227	1.00 43.88	8
ATOM	2146		ASN A 269		10.335	42.165	59.594	1.00 39.61	7
MOTA	2147	ND2	ASN A 269		14.553	42.854	61.710	1.00 35.45	6
MOTA	2148	C	ASN A 269 ASN A 269		14.095	43.621	62.560	1.00 41.47	8
MOTA	2149	0	LEU A 270		15.747	42.285	61.827	1.00 33.27	7
MOTA	2150 2151	N CA	LEU A 270		16.571	42.510	63.004	1.00 30.68	6
MOTA	2152	CB	LEU A 270		17.638	41.431	63.114	1.00 27.41	6
ATOM ATOM	2153	CG	LEU A 270		17.140		62.988	1.00 23.76	6 -
ATOM	2154	CD1	LEU A 270		18.222		63.543	1.00 27.14	6 6
ATOM	2155	CD2	LEU A 270		15.855		63.772	1.00 28.00 1.00 32.30	6
MOTA	2156	С	LEU A 270		17.258			1.00 32.30	8
MOTA	2157	0	LEU A 270		17.347			1.00 30.33	7
ATOM	2158	N	SER A 271		17.749	44.207		1.00 30.79	6
ATOM	2159	CA	SER A 271		18.465	45.457		1.00 29.53	6
ATCM	2160	CB	SER A 271		17.816			1.00 30.43	8
ATOM	2161	OG	SER A 271		17.712 19.911				6
ATOM	2162	C	SER A 271		20.194				8
MOTA	2163	0	SER A 271		20.134				7
MOTA	2164	И	ASN A 272 ASN A 272		22.234			1.00 31.65	6
MOTA	2165	CA	ASN A 272		23.036			1.00 33.76	6
ATOM	2166	CB	ASN A 272		23.101			1.00 37.76	6
ATOM	2167	CG	1 ASN A 272		23.719		63.100		8
ATOM	2168 2169	מט. מזא	2 ASN A 272		22.460	46.952			7
MOTA	2170	C	ASN A 272		22.369	9 45.333			6
ATOM	2170	Ö	ASN A 272		22.970	44.283			.8
ATOM	2171	Ŋ	VAL A 273		21.80				7 6
MOTA ATOM	2173	CA	VAL A 273		21.83				6
ATOM	2174	CB	VAL A 273		20.92		69.481		6
ATCM	2175	CG	1 VAL A 273		20.98				6
ATOM			2 VAL A 273		21.35	6 48.11			6
ATOM	2177		VAL A 273		21.41				8
ATCM ATCM			VAL A 273		22.06	0 43.58	0 69.679	7.00 22.90	

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			ALA A 274	20.328	43	.889	68.262	T	7
ATCM		N	AUA A 274			.521	68.385	1.00 31.09	6
ATCM	2180	CA	ALA A 274	19.834					6
			ALA A 274	18.574	42	.356			
ATCM	2181	CB	ALA A 274	20.923		.588	67.861	1.00 31.74	6
ATCM	2182	C	ALA A 274					. 00 31 E4	8
			ALA A 274	21.323	40	.634	68.533	1.00 31.54	
MOTA	2183	0	AUA A 273			.879	66.655	1.00 30.05	7
ATCM	2184	N	PHE A 275	21.401				1 00 21 20	6
			PHE A 275	22.467	41	.102	66.036	1.00 31.30	
ATCM	2185	CA	PRE A 275			.810	64.751	1.00 31.54	6
ATCM	2186	CB	PHE A 275	22.932				1.00 31.76	6
	2187	CG	PHE A 275	23.938	41	.029	63.941		
ATCM		CG	7.10 1. 075	23.597	3 0	.809	63.365	1.00 32.40	6
ATCM	2188	CD1	PHE A 275				63.729	1.00 34.04	6
	2189	CD2	PHE A 275	25.219	41	529			
ATCM				24.513	39	.100	62.586	1.00 32.27	6
MOTA	2190	CE1					62.950	1.00 33.90	6
MCTA	2191	CE2	PHE A 275	26.149		.828			6
			PHE A 275	25.793	39	9.613	62.378	1.00 34.50	
MOTA	2192	CZ	PRE A 275	23.632		0.999	67.040	1.00 29.98	6
MOTA	2193	С	PHE A 275				67.010	1.00 29.41	8
	2194	0	PHE A 275	24.252	35	9.950	67.200		
ATCM			775	23.908	4:	2.099	67.726	1.00 31.22	7
MOTA	2195	N	LEU A 276				68.698	1.00 32.29	6
ATCM	2196	CA	LEU A 276	24.988		2.144			6
			LEU A 276	25.221	4:	3.594	69.141	1.00 33.44	
ATCM	2197	CB	LEO A 270	26.415	4	3.908	70.050	1.00 36.01	6
ATCM	2198	CG	LEU A 276					1.00 35.02	6
	2199	CD1	LEU A 276	26.683		5.391	70.025	1.00 33.02	
ATCM			- 777	26:147	4	3.433	71.467	1.00 39.09	6
MOTA	2200	CD2	LEU. A 276				69.894	1.00 32.79	6
	2201	С	LEU A 276	24.682		1.244		1.00 32.73	
ATCM			LEU A 276	25.560	4	0.530	70.371	1.00 30.74	8
ATOM	2202	0	LEU A 270			1.273	70.384	1.00 33.95	7
MOTA	2203	N	LYS A 277	23.445			70.504	1.00 36.56	6
		CA	LYS A 277	23.086	4	0.413	71.505	1.00 36.36	
ATCM	2204		DID 1 277	21.623		0.588	71.902	1.00 35.76	6
ATOM	2205	CB	LYS A 277				72.687	1.00 42.31	6
	2206	CG	LYS A 277	21.343		1.842		1.00 42.32	
ATOM			LYS A 277	20.743	4	1.508	74.049	1.00 45.72	6
MCTA	2207	CD	LIS A 277			0.601	74.865	1.00 47.87	6
ATOM	2208	CE	LYS A 277	21.665				1.00 44.36	7
	2209	NZ	LYS A 277	21.140	4	0.378	76.244	1.00 44.30	
ATOM	_		110 1 277	23.302		8.974	71.092	1.00 37.98	6
MCTA	2210	С	LYS A 277	23.302			71.845	1.00 37.54	8
	2211	0	LYS A 277	23.875	ک د	8.179		1.00 37.33	7
ATOM			ALA A 278	22.832	: 3	8.654	69.886	1.00 37.17	
ATOM	2212	Ŋ	ALA A 270	22.952		7.311	69.323	1.00 34.51	6
ATOM	2213	CA	ALA A 278					1.00 35.38	6
	2214	CB	ALA A 278	22.638	3 3	37.341	67.820		
MOTA			373 3 279	24.368	3	36.831	69.550	1.00 30.63	6
ATOM	2215	С	ALA A 278			35.790	70.167	1.00 27.62	8
ATOM	2216	0	ALA A 278	24.60				1.00 29.24	7
		N	PHE A 279	25.30	3	37.624	69.049		
ATOM	2217		FRD R 270	26.72		37.347	69.167	1.00 31.48	6
ATCM	2218	CA	PHE A 279				68.645	1.00 33.25	6
	2219	CB	PHE A 279	27.49		38.558		1.00 32 32	6
atom			PHE A 279	28.97	1 :	38.396	68.663	1.00 39.28	
ATOM	2220	CG	PRE A 275	29.57		37.337	68.000	1.00 41.15	6
ATOM	2221	CD	1 PHE A 279					1.00 40.66	6
	2222	CD	2 PHE A 279	29.77		39.328		1.00 40.00	
ATOM	2222		1 PHE A 279	30.96	0 :	37.209	67.987	1.00 44.22	6
ATOM	2223	CE	I PHE A 2/3	22 15	5	39.213	69.378	1.00 41.38	6
ATOM	2224	CE	2 PHE A 279	31.15				1.00 44.52	6
	2225			31.75	0 :	38.152	68.614	1.00 44.32	
ATOM			> 270	27.11		37.043		1.00 31.81	6
ATOM	2226	С	PHE A 279					1.00 27.51	8
	2227		PHE A 279	27.62		35.953	70.935		
ATCM			ASN A 280	26.86	0	38.005	71.503	1.00 29.32	7
ATOM	2228	N	ASN A 200			37.851		1.00 29.26	6
ATOM	2229	CA	ASN A 280	27.19					6
				26.92	7	39.153	73.660	1.00 30.33	
ATCM	2230		7514 75 200	27.90		40.245	73.278	1.00 30.68	6
ATOM	2231	. CG	ASN A 280						8
	2232		1 ASN A 280	29.11	7	40.030			
ATOM			2 201 2 200	27.39		41.419	72.931	1.00 27.00	7
ATOM	2233	NI	2 ASN A 280					1.00 30.01	6
ATCM	2234	C	ASN A 280	26.52		36.680			8
			ASN A 280	27.16	7	36.004			
ATOM	2235		A3N A 200	25.25		36.423		1.00 30.46	7
ATOM		, N	ILE A 281						6
				24.59	4	35.29			
ATOM			. TTE > 201	23.10		35.163	73.569	1.00 36.14	6
ATOM	2238	3 CE	ILE A 281						6
ATOM	2239) C	32 ILE A 281	22.54		33.82			6
A 14			31 ILE A 281	22.29	8	36.30			
ATOM	2240		37 TPD W 707	20.8		36.24			6
ATOM	2241	r ci	01 ILE A 281						6
			ILE A 281	25.33		34.00	-		
ATOM			ILE A 281	25.3	35	33.07	1 74.43		
ATOM	224		THE W SOT	25.8		33.96			7
ATOM		4 N	VAL A 282	45.0		55.50			

			_					
					22 705	72.005	1.00 36.45	6
ATOM	2245	CA VAL A 282		6.654	32.785	70.524	1.00 35.62	6.
MOTA	2246	CB VAL A 282		7.084	32.871		1.00 31.20	6
MOTA	2247	CG1 VAL A 282		7.829	31.604	70.126		6
ATOM	2248	CG2 VAL A 282		5.880	33.080	69.646	1.00 34.51	
MOTA	2249	C VAL A 282	2	7.919	32.723	72.857	1.00 37.80	6
	2250	O VAL A 282	2	8.182	31.722	73.532	1.00 36.12	8
MOTA	2251	N ARG A 283	2	8.693	33.808	72.821	1.00 38.45	7
MOTA				9.929	33.884	73.587	1.00 40.06	6
MOTA	2252			0.551	35.272	73.449	1.00 39.38	6
MOTA	2253			0.974	35.625	72.027	1.00 41.90	5
ATOM	2254			1.492	37.048	71.968	1.00 41.36	6
MOTA	2255	CD ARG A 283		2.647	37.206	72.840	1.00 43.35	7
MOTA	2256	NE ARG A 283			38.373	73.215	1.00 42.55	6
MOTA	2257	CZ ARG A 283		3.162	39.516	72.797	1.00 39.95	7
MOTA	2258	NH1 ARG A 283		2.628		74.014	1.00 41.72	7
MOTA	2259	NH2 ARG A 283		4.220	38.392	75.044	1.00 40.01	6
MOTA	2260	C ARG A 283		9.614	33.587	75.716	1.00 39.01	8
ATOM	2261	O ARG A 283		0.350	32.862	75.520	1.00 40.30	7
ATOM	2262	N GLU A 284		8.506	34.141		1.00 43.19	6
ATOM	2263	CA GLU A 284		8.084	33.923	76.894	1.00 47.53	6
ATOM	2264	CB GLU A 284		6.753	34.647	77.165	1.00 56.10	6
ATOM	2265	CG GLU A 284		26.875	36.176	77.090	1.00 50.10	6
ATOM	2266	CD GLU A 284	_	25.542	36.923	77.179	1.00 60.77	
ATOM	2267	OE1 GLU A 284	7	24.659	36.682	76.329	1.00 61.41	8
ATOM	2268	OE2 GLU A 284	2	25.383	37.763	78.096	1.00 62.21	8
ATOM	2269	C GLU A 284	7	27.953	32.429	77.179	1.00 40.72	6
ATOM	2270	O GLU A 284	:	28.565	31.922	78.120	1.00 45.29	8
ATOM	2271	N VAL A 285		27.186	31.721	76.354	1.00 34.82	7
ATOM	2272	CA VAL A 285	. :	26.975	30.288	76.551	1.00 30.84	6
MOTA	2273	CB VAL A 285		25.842	29.752	75.647	1.00 27.74	6
	2274	CG1 VAL A 285		25.698	28.253	75.831	1.00 22.95	6
ATOM .	2275	CG2 VAL A 285		24.545	30.433	75.982	1.00 26.26	6
MOTA	2276	C VAL A 285		28.181	29.366	76.341	1.00 31.93	6
MOTA	2277	O VAL A 285		28.492	28.556	77.214	1.00 33.46	8
MOTA		N PHE A 286		28.845	29:466	75.191	1.00 29.43	7
ATOM	2278	CA PHE A 286		29.973	28.586	74.907	1.00 24.26	6
MOTA	2279 2280	CB PHE A 286		29.830	27.957	73.519	1.00 22.57	6
MOTA		CG PHE A 286		28.607	27.095	73.345	1.00 23.46	6
MOTA	2281	CD1 PHE A 286		27.409	27.639	72.885	1.00 23.90	6
MOTA	2282	CD2 PHE A 286		28.664	25.718	73.608	1.00 21.95	6
ATOM	2283	CE1 PHE A 286		26.281	26.814	72.681	1.00 24.90	6
ATOM	2284	CE2 PHE A 286		27.547	24.892	73.411	1.00 18.06	6
MOTA	2285			26.357	25.437	72.945	1.00 20.23	6
ATOM	2286			31.368	29.200	74.991	1.00 25.14	6
MOTA	2287			32.338		74.560	1.00 23.16	8
MOTA	2288			31.480	30.416	75.525	1.00 25.51	7
MOTA	2289			32.783	31.065	75.614	1.00 26.86	6
MOTA	229	CA GLY A 287		33.353		74.270	1.00 26.28	6
ATOM	2291	C GLY A 287		32.644		73.271		8
ATOM	2294	O GLY A 287		34.637		74.238		7
ATOM	2293	N GLU A 288		35.274		72.996		6
MOTA	2294	CA GLU A 288				73.269		6
ATOM	2295	CB GLU A 288		36.680		74.083		6
ATOM	2296	CG GLU A 288		36.726		73.421		6
ATOM	2297	CD GLU A 288		35.970		72.228		8
ATOM	2298	OE1 GLU A 288		36.221				8
MOTA	2299	OE2 GLU A 288		35.130				6
ATOM	2300	C GLU A 288		35.386				8
MOTA	2301	O GLU A 288		35.596				7
MOTA	2302	N GLY A 289		35.268				6
ATOM	2303	CA GLY A 289		35.373				6
ATOM	2304	C GLY A 289		35.948				8
ATOM	2305	O GLY A 289		36.556				7
	3306	N VAL A 290		35.764				6
ATOM	2307			36.277				
MOTA	2308			37.014		65.037		6
ATOM	2309			37.616	30.976	63.813		6
MOTA	2310	000		38.100		65.852	1.00 17.33	. 6
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•	2311 C VAL A 2	o a n	35.137	31.975			6
MOTA				31.279			8
MOTA	2312 O VAL A 2 2313 N TYR A		35.217	33.293		1.00 m	7
MOTA			34.188	34.052	• • • • •	1.00 26.69	6
ATOM	2314 CA TYR A 2315 CB TYR A		33.925	35.356		1.00 25.51	6
MOTA	2316 CG TYR A	291	33.935	35.178		1.00 28.73	6 6
MOTA MOTA	2317 CD1 TYR A		35.025	35.596	• . •	1.00 29.72	6
ATOM	2318 CE1 TYR A	291	35.059	35.414		1.00 29.53 1.00 27.39	6
ATOM	2319 CD2 TYR A ·	291 [.]	32.874	34.565		1.00 27.33	6
ATOM	2320 CE2 TYR A		32.898	34.377	68.466 69.194	1.00 31.85	6
ATOM	2321 CZ TYR A	291 -	33.997	34.808 34.647	70.562	1.00 38.03	8 .
ATOM	2322 OH TYR A	291	34.030 34.527	34.345	62.745	1.00 27.99	6
MOTA	2323 C TYR A	291	35.608	34.843	62.415	1.00 24.83	8
MOTA	2324 O TYR A 2325 N LEU A		33.567	34.042	61.880	1.00 30.17	7
MOTA		292	33.726	34.220	60.441	1.00 28.26	6
ATOM		292	33.561	32.861	59.741	1.00 27.70	6
MOTA	2327 CB LEU A 2328 CG LEU A	292	34.191	31.643	60.435	1.00 24.64	6
MOTA	2329 CD1 LEU A	292	33.867	30.380	59.661	1.00 24.66 1.00 23.19	6 6
MOTA ATOM	2330 CD2 LEU A	292	35.686	31.825	60.553	1.00 25.59	6
ATOM	2331 C LEU A	292	32.649	35.175	59.944 60.611	1.00 23.33	8
ATOM	2332 O LEU A	292	31.640	35.394 35.749	58.770	1.00 28.55	7
ATOM	2333 N GLY A	293	32.869 31.878	36.653	58.223	1.00 31.26	6
MOTA	2334 CA GLY A	293	30.722	35.815	57.714	1.00 34.84	6
MOTA	2335 C GLY A 2336 O GLY A	293	30.463	34.724	58.234	1.00 34.11	8
MOTA	200	294	30.036	36.312	56.689	1.00 35.34	7
ATOM	2337 N GLY A 2338 CA GLY A	294	28.918	35.581	56.124	1.00 34.84	6
MOTA MOTA	2339 C GLY A	294	28.142	36.445	55.155	1.00 34.79 1.00 37.05	6 8
MOTA	2340 O GLY A	294	28.644	37.473	54.699	1.00 37.03	7
ATOM	2341 N GLY-A	295	26.917	36.035	54.842 53.925	1.00 31.07	6
MOTA	2342 CA GLY A	295	26.102 25.969	36.806 38.245	54.378	1.00 27.09	6
ATOM	2343 C GLY A	295	26.192	38.558	55.546	1.00 27.03	8
ATOM	2344 O GLY A 2345 N GLY A	295	25.596	39.119	53.450	1.00 24.67	7
MOTA		296	25.440	40.527	53.757	1.00 25.28	6
ATOM	2346 CA GLY A 2347 C GLY A	296	25.562	41.262	52.446	1.00 27.64	6 8
MOTA MOTA	2348 O GLY A	. 296	26.591	41.163	51.771	1.00 26.65 1.00 30.21	7
ATOM	2349 N TYR A	. 297	24.526	42.009	52.078 50.801	1.00 30.62	6
ATOM	2350 CA TYR A	297	24.543	42.704 42.011		1.00 29.50	6
ATOM	2351 CB TYR A	297	23.560 23.717	40.516		1.00 30.33	6
MOTA	2352 CG TYR A 2353 CD1 TYR A	231	23.174	39.810		1.00 30.86	6
ATOM		297	23.450	38.449	51.226	1.00 30.74	6
ATOM	2354 CE1 TYR A 2355 CD2 TYR A	297	24.538	39.824		1.00 31.20	6 6
ATOM	2356 CE2 TYR A	297	24.821	38.460		1.00 32 08	6
MOTA MOTA	2357 CZ TYR A	A 297	24.275			1.00 3C 92 1.00 29 60	8
ATOM	2358 OH TYR A	297	24.539				6
ATOM	2359 C TYR 2	A 297	24.267				8
ATOM		A 297	24.134 24.180			1.00 31.41	7
ATOM		A 298 A 298	23.961			1.00 33.94	6
MOTA		A 298	22.761		53.194		6
ATOM	2363 CB HIS 2 2364 CG HIS 2	A 298	22.379	47.880	53.256		6 6
MOTA	2365 CD2 HIS	A 298	22.558	48.809			7
MOTA MOTA	2366 ND1 HIS	A 298	21.779				6
ATOM	2367 CE1 HIS	A 298	21.609				7
ATOM	2368 NE2 HIS	A 298	22.069				6
ATOM	2369 C HIS	A 298	25.21 25.47			3 1.00 33.83	8
ATOM		A 298	25.47			1.00 36.69	7
ATOM	220 220	A 299 A 299	25.68		 .	1 1.00 35.57	6
ATOM		A 299 A 299	27.23	8 48.14	2 52,689	9 1.00 35.17	6
ATOM	CD	À 299	27.58	6. 49.07			5 6
ATOM	2375 CG PRO	A 299	26.21	6 49.39			
MOTA MOTA	222	A 299	27.04	5 48.88	6 54.00	0 I.OO 34.4;	•
ATOM		•					

		_			27.781	Δ	8.670	54.963	1.00 33.67	8
ATOM	2377	0	PRO A 299					54.026	1.00 32.69	7
ATOM	2378	N	TYR A 300		26.051				1.00 32.97	6
ATOM	2379	CA	TYR A 300		25.745			55.227		
	2380	CB	TYR A 300		24.496	5 5		55.009	1.00 35.56	6
MOTA		CG	TYR A 300		24.648		2.524	54.028	1.00 35.96	6
ATOM	2381				25.370		52.367	52.842	1.00 39.37	6
ATOM-	2382	CD1	TYR A 300				53.405	51.907	1.00 39.92	6
MOTA	2383	CEl	TYR A 300		25.461				1.00 35.92	6
ATOM	2384	CD2	TYR A 300		24.016		53.752	54.259		6
	2385	CE2	TYR A 300		24.098		54.793	53.334	1.00 36.78	
MOTA			TYR A 300		24.823	3 5	54.612	52.161	1.00 38.09	6
MOTA	2386	CZ			24.92		55.634	51.251	1.00 37.68	8
MOTA	2387	OH	TYR A 300				49.546	56.3.69	1.00 31.10	6
MOTA	2388	С	TYR A 300		25.49			57.440	1.00 30.62	8
MOTA	2389	0	TYR A 300	•	26.062		49.692		1.00 32.55	7
MOTA	2390	N	ALA A 301		24.66	_	48.541	56.125		
	2391	CA	ALA A 301		24.32	3 4	47.541	57.145	1.00 31.64	6
MOTA			ALA A 301		23.21		46.602	56.624	1.00 24.69	6 -
MOTA	2392	CB			25.53		46.727	57.552	1.00 30.06	6
ATOM	2393	С	ALA A 301		25.84		46.579	58.734	1.00 31.91	8
MOTA	2394	0	ALA A 301				46.192	56.557	1.00 28.94	7
MOTA	2395	N	LEU A 302		26.22				1.00 30.55	6
ATOM	2396	CA	LEU A 302		27.40		45.383	56.795		6
	2397	CB	LEU A 302		28.01	2	45.002	55.441	1.00 31.83	
MOTA		CG	LEU A 302		29.31	5	44.223	55.323	1.00 30.01	6
MOTA	2398				29.49		43.781	53.888	1.00 32.09	6
MOTA	2399		LEU A 302		30.47		45.077	55.762	1.00 32.23	6
ATOM	2400	CD2	LEU A 302					57.663	1.00 29.79	6
ATOM	2401	С	LEU A 302		28.41		46.136	58.746	1.00 27.68	8
ATOM	2402	0	LEU A 302		28.79		45.676	_		7
	2403	N	ALA A 303		28.84	2	47.299	57.179	1.00 27.92	
MOTA		CA	ALA A 303		29.81	.8	48.119	57.877	1.00 25.00	6
MOTA	2404		ALA A 303		30.02		49.424	57.137	1.00 23.62	6
MOTA	2405	CB	ALA 303		29.39		48.397	59.305	1.00 25.06	. 6
MOTA	2406	С	ALA A 303				48.015	60.248	1.00 26.90	8
MOTA	2407	0	ALA A 303		30.08			59.472	1.00 24.06	7
ATOM	2408	N	ARG A 304		28.25		49.054		1.00 24.37	6
ATOM	2409	CA	ARG A 304		27.79		49.382	60.810		6
	2410	CB	ARG A 304		26.42	20	50.052	60.758		
MOTA		CG	ARG A 304		26.32	28	51.257	59.815	1.00 28.77	6
MOTA	2411		ARG A 304		25.10		52.089	60.156	1.00 29.96	6
MOTA	2412	CD	ANG A JOS		23.94		51.233	60.369	1.00 36.43	7
MOTA	2413	NE	ARG A 304		22.89		51.573	61.110	1.00 37.01	6
MOTA	2414	CZ	ARG A 304		22.03	- 4	52.757	61.713	1.00 36.37	7
ATOM	2415	NH.			22.85			61.269	1.00 34.36	
ATOM	2416	NH	2 ARG A 304		21.89		50.719		1.00 24.24	
ATOM	2417	С	ARG A 304	:	27.73	27	48.142	61.691		
	-	ō	ARG A 304		28.3	43.	48.099	62.762	1.00 22.34	
MOTA	2418		ALA A 305		26.99	94	47.132	61.221	1.00 24.51	7
ATOM	2419	N	ADA A 30	:	26.8		45.883	61.959	1.00 22.70	6
MOTA	2420	CA	ALA A 305				44.960	61.175	1.00 18.13	
ATOM	2421	CB	ALA A 305		25.8			62.351	1.00 23.33	
MOTA	2422	С	ALA :. 305	5	28.0		45.142		1.00 21.51	
ATOM	2423	0	ALA . 305	5	28.2		44.725	63.506		
	2424	N	TRP 30	5	29.0	16	44.961	61.411		
ATOM				5	30.2	44	44.270	61.764		6
ATOM	2425	CA			31.0		43.842	60.524	1.00 26.93	
MOTA	2426			-	30.6		42.503	59.952		6
ATOM	2427		TRP A 30	2				58.629		3 6
MOTA	2428	CD	2 TRP A 30	5	30.8		42.013			
ATOM	2429		2 TRP A 30	5	30.3		40.688	58.570		
	2430				31.4	62	42.563	57.490		
MOTA				6	29.9		41.484	60.620		3 6
MOTA	2431				29.8		40.392	59.797	1.00 25.63	
MOTA	2432			c	30.4		39.904		1.00 24.5	1 6
ATOM	2433			b			41.784			
ATOM	2434	C2	3 TRP A 30		31.5					5 6
					31.0		40.465			
MOTA			TRP A 30		31.1		45.108	62.676		
ATOM			TRP A 30	6	31.9		44.570	63.464	1,00 25.0	7 8
ATCM			1VE V 201	7	3,1.0	103	46.427		1.00 28.0	8 7
ATOM	2438		THR A 30	<u>'</u>			47.323			16
ATOM			THR A 30	_	31.7					6 6
ATOM) CI	3 THR A 30	7	31.4		48.796			
ATOM		1 00	31 THR A 30	7	31.9		49.119			
			32 THR A 30	7	32.3	120	49.704	64.13	7 1.00 24.7	
ATOM		,						•		

					44	45 043	CA 063	1.00 29.35	6
ATOM	2443	C .	THR A 307		31.441	47.041			
			THR A 307		32.316	4.6.989		1.00 32.56	8
MOTA					30.159	46.857	65.135	1.00 30.60	7
ATOM	2445		LEU A 308			46.555	66.490	1.00 33.69	6.
MOTA	2446		LEU A 308		29.740			1.00 34.48	6
		CB	LEU A 308		28.256	46.215	66.525		
MOTA			LEU A 308		27.338	47-337	66.058	1.00 34.79	6
MOTA	2448	CG	TEO Y 200		25.903	46.887	66.153	1.00 31.98	6
MOTA	2449	CDl	LEU A 308				66.924	1.00 36.96	6
MOTA	2450	CD2	LEU A 308		27.569	48.542		1.00 30.50	6
		C	LEU A 308		30.531	45:353	66.965	1.00 34.57	
MOTA			LEU A 308		31.230	45.417	67.975	1.00 33.75	8
MOTA	2452	0	LEU A 300	•		44.262	66.208	1.00 35.78	7
MOTA	2453	N	ILE A 309	•	30.423			1.00 35.87	6
	2454	CA	ILE A 309		31.108	43.017	66.540		6
MOTA		CB	ILE A 309		30.939	41.949	65.431	1.00 34.95	
MOTA	2455		THE A 300		31.733	40.695	65.799	1.00 31.21	6
MOTA	2456	CG2	ILE A 309			41.631	65.212	1.00 34.25	6
ATOM	2457	CG1	ILE A 309		29.445			1.00 25.04	6
	2458	CD1	ILE A 309		28.726	41.014	66.407	1.00 25.04	
ATOM		c	ILE A 309		32.589	43.238	66.772	1.00 35.81	6
MOTA	2459		715 7 300		33.183	42.617	67.657	1.00 38.19	8
MOTA	2460	0	ILE A 309			44.111	65.977	1.00 36.10	7
MOTA	2461	N	TRP A 310		33.197			1.00 35.26	6
NOTA	2462	CA	TRP A 310		34.612	44.384	66.169		
		CB	TRP A 310		35.150	45.311	65.075	1.00 32.61	6
ATOM	2463		mnn x 310		36.619	45.588	65.220	1.00 30.79	6
ATOM	2464	CG	TRP A 310			44.620	65.274	1.00 29.93	6
ATOM!	2465	CD2			37.679			1.00 28.42	6
ATOM	2466	CE2	TRP A 310		38.882	45.330	65.474	1.00 20.42	6
	_	CE3	TRP A 310		37.731	43.224	65.174	1.00 31.59	
MOTA	2467				37.206	46.804	65.380	1.00 30.62	6
MOTA	2468	CD1	TRP A 310		20 565	46.659	65.536	1.00 29.37	7
ATOM	2469	NEl	TRP A 310		38.565			1.00 27.91	6
ATOM	2470	CZ2	TRP A 310		40.126	44.691	65.578		6
	2471	CZ3			38.978	42.585	65.279	1.00 28.06	
ATOM					40.150	43.322	65.479	1.00 26.50	6
-MOTA	2472	CH2	TRP A 310			45.040	67.545	1.00 36.00	6
MOTA	2473	C	TRP A 310		34.744			1.00 36.24	8
ATOM	2474	0	TRP A 310		35.365	44.476	68.440		7
		N	CYS A 311		34.134	46.213	67.715	1.00 34.57	
MOTA	2475		CYS A 311		34.183	46.937	68.985	1.00 32.82	6
MOTA	2476	ÇA	CIS W SIT		33.169	48.085	68.996	1.00 35.62	6
MOTA	2477	CB	CYS A 311				67.796	1.00 32.36	16
ATOM	2478	SG	CYS A 311		33.439	49.401		1.00 32.01	6
	2479	С	CYS A 311		33.912	46.061	70.206	1.00 32.01	
MOTA			CYS A 311		34.452	46.313	71.280	1.00 29.82	8
ATOM	2480	0	CIS A SII		33.062	45.049	70.053	1.00 32.57	7
ATOM	2481	N	GLU A 312				71.171	1.00 33.86	6
ATOM	2482	CA	GLU A 312		32.731	44.159		1.00 34.19	6
	2483	CB	GLU A 312		31.557	43.252	70.807	1.00 34.13	
ATOM		CG	GLU A 312		30.442	43.185	71.844	1.00 40.27	6
ATCM	2484		010 7 312		30.923		73.239	1.00 43.80	6
ATOM	2485	CD	GLU A 312					1.00 44.81	8
MOTA	2486	OE:	1 GLU A 312		31.685			1.00 41.54	8
ATOM	2487	CE	2 GLU A 312		30.516			1.00 41.34	6
		C	GLU A 312		33.953	43.298	71.456	1.00 33.77	
ATOM	2488				34.253		72.603	1.00 32.07	8
ATOM	2489	0	GLU A 312		34.647			1.00 33.45	7
ATOM	2490	N	LEU A 313					1.00 32.89	6
ATOM	2491	CA	LEU A 313		35.848			1.00 32.14	6
	2492	CB	LEU A 313		36.172	41.513			
ATOM			LEU A 313		35.154		68.626	1.00 27.73	6
ATCM	2493	CG	FEO W 212						6
ATOM	2494	CD	1 LEU A 313		35.587				6
	2495	CD	2 LEU A 313		35.053		69.648		6
ATOM			LEU A 313		36.976	43.031			
ATOM	2496	C			37.605		71.925	1.00 31.74	8
ATOM	2497	0	LEU A 313						7
ATCM	2498	N	SER A 314		37.206				6
	2499	CA			38.232				
MOTA					38.10	7 46.154	1 69.256		6
ATOM	2500	CB	201 1 214		39.14			1.00 44.55	8
ATCM	2501	OG	SER A 314						6
ATOM		С	SER A 314		38.04				8
			SER A 314		39.01				7
ATOM			GLY A 315		36.79	4 45.72			
ATCM	2504	N	GD1 A 343		36.50			3 1.00 42.42	6
ATOM	2505		GLY A 315						6
ATOM			GLY A 315		36.29				
			GLY A 315)	35.92	3 48.27			
ATCM			ARG A 316	,	36.51		8 72.45	3 1.00 48.90	,
24031	2508	3 N	ARG A JAV	•			-		

	0500	C 3	NEC N 316		36.346	49.885	72.448	1.00 52.27	6
MOTA	2509	CA	ARG A 316		37.144	50.479	71.283	1.00 53.60	6
ATOM	2510	CB	ARG A 316			50.007	69.900	1.00 52.11	6
ATOM	2511	CG	ARG A 316		36.730		68.870	1.00 53.76	6
MOTA	2512	CD	ARG A 316		37.734	50.514			7
MOTA	2513	NE	ARG A 316		39.028	49.854	69.019	1.00 53.67	6
ATOM -	2514	CZ	ARG A 316		40.135	50.221	68.383	1.00 55.34	
ATOM	2515		ARG A 316		40.110	51.253	67.552	1.00 55.44	7 .
	2516	NH2	ARG A 316		41.266	49.546	68.569	1.00 55.80	7
MOTA			ARG A 316		34.882	50.343	72.391	1.00 52.06	6
MOTA	2517	C	ARG A 316		34.075	49.781	71.652 .	1.00 54.96	8
ATOM	2518	0			34.547	51.361	73.182	1.00 51.87	7
ATOM	2519.	N	GLU A 317			51.900	73.222	1.00 52.67	6
ATOM	2520	CA	GLU A.317	_	33.185		74.123	1.00 54.70	6
ATOM	2521	CB	GLU A 317		33.111	53.139		1.00 60.94	6
MOTA	2522	CG	GLU A 317		32.549	52.901	75.527		6
ATOM	2523	CD	GLU A 317		33.353	51.912	76.361	1.00 64.62	
ATOM	2524	OE1	GLU A 317		33.025	51.741	77.556	1.00 64.59	8 -
ATOM	2525	OE2	GLU A 317		34.305	51.302	75.832	1.00 68.64	8
	2526	. c	GLU A 317		32.642	52.256	71.843	1.00 51.27	6
ATOM	2527	ō	GLU A 317		33.270	52.983	71.077	1.00 49.34	8
MOTA			VAL A 318		31.457	51.733	71.548	1.00 51.30	7
MOTA	2528	N	VAL A 318		30.780	51.962	70.280	1.00 48.80	6
MOTA	2529	CA			29.522	51.071	70.169	1.00 47.11	6
MOTA	2530	CB	VAL A 318				68.808	1.00 45.53	6
MOTA	2531	CG1	VAL A 318		28.875	51.237	70.424	1.00 47.05	6
ATOM	2532	CG2			29.895	49.631		1.00 47.64	6
ATOM	2533	C	VAL A 318		30.349	53.411	70.178		8
ATOM	2534	0	VAL A 318		29.511	53.867	70.953	1.00 47.61	7
ATOM	2535	N	PRO A 319		30.925	54.165	69.234	1.00 48.14	
MOTA	2536	CD	PRO A 319		31.960	53.836	68.247	1.00 48.87	6
MOTA	2537	CA	PRO A 319		30.538	55.569	69.093	1.00 52.54	6
	2538	CB	PRO A 319		31.438	56.051	67.954	1.00 49.96	6
MOTA			PRO A 319		31.612	54.802	67.141	1.00 50.17	6
MOTA	2539	CG	PRO A 319		29.052	55.679	68.764	1.00 55.84	6
ATOM	2540	C			28.531	54.913	67.953	1.00 56.06	8
MOTA	2541	0	PRO A 319		28.369	56.624	69.402	1.00 59.20	7
MOTA	2542	N	GLU A 320			56.804	69.167	1.00 62.61	6
MOTA	2543	CA	GLU A 320		26.942	57.588	70.313	1.00 65.59	6
ATOM	2544	CB	GLU A 320		26.302	57.588	70.315	1.00 73.01	6
MOTA	2545	CG	GLU A 320		26.727	59.042		1.00 76.93	6
ATOM	2546	CD.	GLU A 320		26.007	59.823	71.451	1.00 77.37	8
ATOM	2547	OE1	L GLU A 320		24.755	59.832	71.446	1.00 77.37	8
ATOM	2548	OE2	2 GLU A 320		26.697	60.431	72.303	1.00 79.46	6
MOTA	2549	С	GLU A 320		26.698	57.551	67.863	1.00 61.40	
	2550	Ö	GLU A 320		25.663	58.197	67.699	1.00 62.33	8
MOTA	2551	N	LYS A 321		27.650	57.463	66.939	1.00 59.47	7
ATOM	2552	CA	LYS A 321		27.519	58.150	65.662	1.00 59.54	6
ATOM			LYS A 321		27.340	59.648	65.897	1.00 61.36	6
ATOM	2553	CB	LYS A 321		23.620	60.323	66.366	1.00 65.23	6
MOTA	2554	CG			13.169	59.691		1.00 66.59	6
MOTA	2555	CD	LYS A 321		33.564	60.215	67.960	1.00 67.34	6
MOTA	2556		LYS A 321			61.699		1.00 68.58	7
ATOM .	2557	NZ	LYS A 321		30.591	57.941		1.00 59.24	6
MOTA	2558	С	LYS A 321		28.766	57.541			8
MOTA	2559	0	LYS A 321		29.845	57.623		1.00 57.55	7
ATOM	2560	N	LEU A 322		28.608	58.146		1.00 54.72	6
ATOM	2561		LEU A 322		29.702	58.002		1.00 54.72	
ATOM	2562		LEU A 322	-	29.171	57.450		1.00 52.96	6
	2563				28.141	56.316		1.00 52.97	6
MOTA	2564	CD	1 LEU A 322		27.708	55.932	59.899	1.00 49.01	6
ATOM			2 LEU A 322		28.716			1.00 54.73	6
MOTA	2565		LEU A 322		30.250			1.00 53.47	6
MOTA	2566				29.512				8
ATOM	2567		LEU A 322						7
ATOM	2568		ASN A 323		31.530	_			6
ATOM	2569	CY			32.089				6
MOTA	2570	CB	ASN A 323		33.591				6
ATOM	2571	CG	ASN A 323		34.428				8
ATOM	2572	OF	1 ASN A 323		34.386				7
ATOM	2573		2 ASN A 323		35.195				6
	2574		ASN A 323		31.843	61.199	60.243	1.00 48.63	
ATOM	20/9						-		

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ATOM	2575	0	ASN A	323	31.135	60.479	59.538	1.00 47.52	8
MOTA	2576	N	ASN A	324	32.426	62.304	59.792	1.00 47.66	7
MOTA	2577	CA	ASN A	324	32.242	62.769	58.419	1.00 49.25	6
ATOM	2578	CB	ASN A	324	32.758	64.200	58.292	1.00 50.73	6
ATOM	2579	CG	ASN A	324	32.025	65.154	59.205	1.00 53.83	6
ATOM	2580		ASN A		30.812	65.314	59.096	1.00 56.90	8
ATOM	2581		ASN A		32.755	65.789	60.119	1.00 54.93	7
ATOM	2582	C	ASN A		32.906	61.891	57.367	1.00 49.34	6
ATOM	2583	ō	ASN A		32.275	61.502	56.379	1.00 47.22	8
ATOM	2584	N	LYS A		34.182	61.590	57.586	1.00 48.27	7
ATOM	2585	CA	LYS A			60.759	56.676	1.00 46:57	6
MOTA	2586	СВ	LYS A			60.453	57.305	1.00 49.94	6
ATOM	2587	CG	LYS A			59.737	56.399	1.00 54.75	6
ATOM	2588	CD	LYS A			59.329	57.173	1.00 58.22	6
ATOM	2589	CE	LYS A			60.521	57.844	1.00 58.35	6
ATOM	2590	NZ	LYS A			60.128	58.566	1.00 59.81	7
MOTA	2591	C	LYS A			59.458	56.410	1.00 44.85	6
ATOM	2592	ō	LYS A			59.027	55.263	1.00 43.59	8
ATOM	2593	N	ALA A			58.843	57.483	1.00 42.27	7
ATOM	2594	CA	ALA A			57.59 7	57.387	1.00 40.91	6
ATOM	2595	CB	ALA A			57.067	58.773	1.00 36.86	6
ATOM	2596	c	ALA A			57.803	56.612	1.00 43.30	6
ATOM	2597	ō	ALA A			57.028	55.705	1.00 42.83	8
ATOM	2598	N	LYS A			58.843	56.977	1.00 45.56	7
ATOM	2599	CA	LYS A			59.146	56.306	1.00 47.23	6
ATOM	2600	CB	LYS A			60.407	56.892	1.00 49.59	6
ATOM	2601	CG	LYS A			60.263	58.329	1.00 54.63	6
ATOM	2602	CD	LYS A			61.591	58.862	1.00 55.89	б
ATOM	2603	CE	LYS A			61.483	60.299	1.00 58.28	6
ATOM	2604	NZ	LYS A			60.644	60.426	1.00 59.91	7
ATOM	2605	С	LYS A	327	29.888	59.347	54.816	1.00 46.97	6
ATOM	2606	0	LYS A	327	29.090	58.913	53.990	1.00 48.10	8
ATOM	2607	N	GLU A	328	30.986	60.012	54.480	1.00 44.99	7
ATOM	2608	CA	GLU A	328		60.264	53.091	1.00 43.18	6
MOTA	2609	CB	GLU A	328		61.326	53.027	1.00 47.93	6
MOTA	2610	CG	GLU A			62.621	53.710	1.00 53.65	6
MOTA	2611	CD	GLU A			63.630	53.831	1.00 55.79	6
MOTA	2612	OE1	GLU A			64.060	52.783	1.00 58.73	8
MOTA	2613	OE2				63.991	54.979	1.00 58.13	8
MOTA	2614	С	GLU A			58.971	52.437	1.00 41.56	6
MOTA	2615	0	GLU A			58.743	51.255	1.00 39.41	8 7
MOTA	2616	N	LEU A			58.123	53.211	1.00 40.64	6
MOTA	2617	CA	LEU A			56.844	52.695	1.00 36.45 1.00 34.70	6
ATOM	2618	CB	LEU A			56.032	53.801	1.00 34.70	6
MOTA	2619	CG	LEU A			54.610	53.433	1.00 35.05	6
MOTA	2620		LEU A			54.642 53.926	52.359 54.683	1.00 34.63	6
MOTA	2621		LEU A	. 329			52.157	1.00 35.77	6
ATOM	2622	С	LEU A			56.064 55.746	50.975	1.00 34.94	8
MOTA	3623	0	LEU A			55.770	53.029	1.00 34.78	7
MOTA	2624	N	LEU A			55.028	52.630	1.00 34.95	6
ATOM	2625	CA	LEU A			54.914	53.803	1.00 30.95	6
ATOM	2626	CB	LEU A			54.115	54.991	1.00 32.66	6
MOTA	2627	CG	LEU A			53.904	56.022	1.00 31.74	6
MOTA	2628		LEU A			52.769	54.509	1.00 30.73	6
MOTA	2629					55.631	51.428	1.00 37.28	6
MOTA	2630	С	LEU A			54.901	50.557	1.00 40.56	8
ATOM	2631	O N	LYS A			56.957	51.383	1.00 38.24	7
MOTA	2632	N	LYS A			57.661	50.294	1.00 39.59	6
MOTA	2633	CA	LYS A			59.146	50.643	1.00 42.31	č
MOTA	2634	CB	LYS A			59.399	51.873	1.00 45.93	6
ATOM	2635	CG	LYS A			60.879	52.244	1.00 49.72	6
ATOM	2636	CD	LYS A			61.698	51.193	1.00 53.66	6
ATOM	2637	CE	LYS A	, JJ1		63.114	51.640	1.00 54.22	7
ATOM	2638	NZ	LYS A			57.514	48.958	1.00 41.02	6
ATOM	2639	C	L120 A	121	28.220	57.485	47.904	1.00 39.58	8
ATOM	2640	o	LYS A	ددد	20.220	21.402	= 1. JU4	1.00 00.00	_

108/263

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ATOM	2641	N	SER A	332	30.192	57.4			1.00 4		7 . 6
ATOM	2642	CA	SER A	332	30.998	57.2			1.00 4		6
ATOM	2643	CB	SER A		32.494	57.			1.00 4		8
ATOM	2644	OG	SER A		32.862	56.		48.823	1.00 5		о 6
MOTA	2645	C	SER A		30.634	56.		47.040	1.00 4		
ATOM	2646	ō	SER A		30.706	55.		45.811	1.00 4		8 7
ATOM	2647	N	ILE A		30.241	54.		47.786	1.00 5		
ATOM	2648	CA	ILE A	333	29.869	53.		47.187	1.00 5		6
ATOM	2649	CB.	ILE A		29.657	52.		48.246	1.00 5	5.80	6
ATOM	2650	CG2	ILE A		29.388	51.		47.559	1.00 5	2.34	6
MOTA	2651	CG1	ILE A		30.892	52.		49.140	1.00 5		6
MOTA	2652	CD1	ILE A		30.766			50.204	1.00 6		6 6
ATOM	2653	С	ILE A	333	28.579			46.396	1.00 5	F 50	8
ATOM	2654	0	ILE A	333	27.572		321	46.897	1.00 5	11 14	7
ATOM	2655	N	ASP A	334	28.623		320	45.160	1.00 6	5 55	6
ATOM	2656	CA	ASP A		27.456		300	44.281	1.00 6	10 10	6
ATOM	2657	CB	ASP A		27.888		259	42.811	1.00 7		á
MOTA	2658	CG	ASP A		28.784		073	42.491	1.00		8
ATOM	2659	OD1			29.097		875	43.427	1.00		8
ATOM	2660	OD2			29.181		344	44.627	1.00	55.65	6
MOTA	2661	С	ASP A		26.660		.041 .996	43.990	1.00	53.91	8
ATOM	2662	0	ASP A	4 334 .	26:797		. 153	45.649	1.00	65.73	7
MOTA	2663	N	PHE A	4 335	25.822		.021	46.104	1.00		. 6
ATOM	2664	CA	PHE A		25.041 24.980		.034	47.632	1.00		6
MOTA	2665	CB	PHE ?		24.980		.028	48.195	1.00		6
MOTA	2666	CG		A 335	24.035		. 679	47.886	1.00		6
ATOM	2667		PHE 2	A 335	22.978		. 429	48.989	1.00		6
ATOM	2668	CD2			23.265		.742	48.356	1.00	52.73	6
MOTA	2669	CEI		A 335	22.062		.503	49.462	1.00	53.20	6
MOTA	2670	CE2	PUE A	A 335	22.204		.151	49.144	1.00	51.76	6
MOTA	2671	CZ		A 335	23.629		.893	45.535	1.00	65.55	6
MOTA	2672 2673	C 0	DHE .	A 335	23.23		.810	45.097	1.00	67.33	8
MOTA	2674	N .	GLU	A 336	22.87		.986	45.537	1.00	66.47	7
MOTA	2675	CA	GLU	A 336	21.49	7 51	.948	45.048		67.43	6
MOTA MOTA	2676	СВ		A 336	21.42	2 51	.379	43.626	1.00	71.79	6 6
MOTA	2677	CG		A 336	19.98		.245	43.116	1.00	78.77	6
ATOM	2678	CD	GLU	A 336	19.86		.505	41.789		82.67 83.29	8
ATOM	2679	OE:	L GLU	A 336	20.23		.306	41.734		84.26	8
ATOM	2680	OE:	2 GLU	A 336	19.41	51	.126	40.801	1.00	64.72	6
ATOM	2681	C	GLU	A 336	20.65		.069	45.971 45.876		59.84	8
ATOM	2682	0	GLU	A 336	20.68		.840	46.858		64.47	7
MOTA	2683	N	GLU	A 337	19.90		710	47.805	1.00	65.83	6
ATOM	2684	CA	GLU	A 337	19.04 18.39		2.003	48.759	1.00	64.20	6
ATOM	2685	CB	GLU	A 337	17.75	0 J2 3 51		49.964		64.26	6
MOTA	2686	CG	GLU	A 337	18.77	4 5C	0زء.(50.850	1.00	64.04	6
ATOM	2687	CD		A 337	19.74		1.3.2	51.261	1.00	61.66	8
MOTA	2688		1 GLU	A 337 A 337	18.60		3.483	51.132	1.00	63.64	8
MOTA	2689		Z GLU	A 337	17.95		239	47.063	1.00	67.13	6
ATOM	2690		CLU	A 337	17.26		0.807	46.205		68.27	8
MOTA	2691		GTO	A 338	17.77		3.960	47.394	1.00	67.22	7
MOTA	2692		DHE	A 338	16.76		3.129	46.748		68.05	6
MOTA	2693			A 338	16.44		6.919	47.626	1.00	69.68	6
ATOM	2694			A 338	15.22		6.158	47.187		72.35	6
ATOM	2695		1 PHE	A 338	15.12		5.674	45.888		72.37	6
ATOM	2696		2 PHE	A 338	14.17	2 4	5.941	48.074		73.61	6
MOTA	2697 2698		1 PHE	A 338	13.98	0 4	4.984	45.478		73.39	6
MOTA	2699			A 338	13.02		5.250			73.26	6
MOTA	2099			A 338	12.92	9 4	4.771			73.34	6
ATOM	2701			A 338	15.48	31 4	8.902			68.45	6
ATOM		_		A 338	15.28		9.367			67.92	8 7
MOTA			ASP	A 339	14.60		9.026			68.98	
ATOM			ASP	A 339	13.3		9.759			70.68	
MOTA: MOTA:			3 ASP	A 339	12.5		9.758			71.06	
ATOM		-		A 339	11.3	81 5	0.678	48.58	1 1.00	, ,2.03	, ,
MION				٠.							

n mon	2707	OD1 ASP A 339		11.548	51.893	48.320	1.00 72.29	8
MOTA MOTA	2708	OD2 ASP A 339		10.262	50.188	48.858	1.00 71.03	8
MOTA	2709	C ASP A 339		13.715	51.183	46.853	1.00 73.18	6
MOTA	2710	O ASP A 339		14.407	51.884	47.592	1.00 73.78	8
MOTA	2711	N ASP A 340		13.247	51.600	45.677	1.00 76.36	7
ATOM	2712	CA ASP A 340		13.518	52.943	45.152	1.00 78.34	6
MOTA	2713	CB ASP A 340		12.410	53.385	44.189	1.00 77.55	6
ATOM	2714	CG ASP A 340		12.462	52.655	42.864	1.00 78.90	6 8
ATOM	2715	OD1 ASP A 340		12.348	51.408	42.855	1.00 78.38 1.00 78.74	8
MOTA	2716	OD2 ASP A 340		12.620	53.336	41.830	1.00 79.51	6
ATOM	2717	C ASP A 340	•	13.687	54.017	46.214	1.00 79.31	8
ATOM	2718	O ASP A 340		14.587	54.856	46.117 47.224	1.00 79.64	7
ATOM	2719	N GLU A 341		12.824	54.000 54.998	48.271	1.00 80.05	6
MOTA	2720	CA GLU A 341		12.922 12.269	56.301	47.811	1.00 83.75	6
MOTA	2721	CB GLU A 341		12.203	57.442	48.806	1.00 89.02	6
MOTA	2722	CG GLU A 341		11.756	58.724	48.328	1.00 91.52	6
MOTA	2723	CD GLU A 341 OE1 GLU A 341		10.515	58.738	48.175	1.00 93.33	8
MOTA	2724			12.484	59.716	48.102	1.00 92.65	8
MOTA	2725	OE2 GLU A 341 C GLU A 341		12.317	54.578	49.597	1.00 77.98	6
MOTA	2726 2727	O GLU A 341		11.102	54.610	49.777	1.00 79.82	8
ATOM	2728	N VAL A 342		13.179	54.181	50.523	1.00 74.49	7
MOTA	2729	CA VAL A 342		12.745	53.793	51.859	1.00 71.55	6
MOTA MOTA	2730	CB VAL A 342		13.224	52.383	52.245	1.00 72.40	6
ATOM	2731	CG1 VAL A 342		12.672	52.004	53.610	1.00 71.16	6
ATOM	2732	CG2 VAL A 342		12.797	51.391	51.207	1.00 74.35	6 6
ATOM	2733	C VAL A 342		13.454	54.778	52.766	1.00 68.46 1.00 68.96	8
ATOM	2734	O VAL A 342		12.952	55.154	53.829	1.00 61.61	7
MOTA	2735	N ASP A 343		14.636	55.184	52.311 53.029	1.00 54.91	6
ATOM	2736	CA ASP A 343		15.486	56.114 57.303	53.543	1.00 55.06	6
MOTA	2737	CB ASP A 343		14.678 15.556	58.390	54.114	1.00 54.44	6
MOTA	2738	CG ASP A 343		15.002	59.351	54.694	1.00 56.20	8
MOTA	2739	OD1 ASP A 343		16.795	58.287	53.969	1.00 49.32	8
ATOM	2740	OD2 ASP A 343 C ASP A 343	•	16.152	55.401	54.198	1.00 50.85	6
MOTA	2741	2.42		15.557	55.209	55.257	1.00 49.32	8
ATOM	2742 2743	O ASP A 343 N ARG A 344		17.396	55.004	53.980	1.00 47.84	7
MOTA	2744	CA ARG A 344		18.195	54.321	54.981	1.00 45.34	6
ATOM ATOM	2745	CB ARG A 344		18.883	53.099	54.358	1.00 45.00	6
MOTA	2746	CG ARG A 344		17.950	51.969	53.974	1.00 38.03	6
ATOM	2747	CD ARG A 344		17.185	51.531	55.188	1.00 35.83	6 7
ATOM	2748	NE ARG A 344		16.278	50.439	54.885	1.00 39.20 1.00 39.89	6
MOTA	2749	CZ ARG A 344		15.350	49.993	55.724 56.917	1.00 33.33	7
ATOM	2750	NH1 ARG A 344		15.217	50.561	55.375	1.00 40.75	7 .
ATOM	2751	NH2 ARG A 344		14.566	48.976 55.278	55.515		6
1 TTA	2752	C ARG A 344		19.250 20.170	54.869	56.223	1.00 46.97	8
ATC M	2753	O ARG A 344		19.113	56.552	55.157	1.00 45.81	7
ATO.!	2754	N SER A 345		20.045	57.596	55.577	1.00 43.66	6
ATOM	2755	CA SER A 345 CB SER A 345		19.538	58.960	55.115	1.00 43.44	6
ATOM	2756			18.292	59.260	55.722	1.00 45.62	8
ATOM	2757 2758			20.258	57.627	57.089	1.00 42.79	6
ATOM	2759			21.364	57.902	57.552	1.00 42.62	8
ATOM	2760			19.200	57.354	57.851	1.00 40.55	7
MOTA MOTA	2761			19.280			1.00 41.05	6
ATOM	2762			17.971			1.00 41.74	6
ATOM	2763			17.668				6 6
ATOM	2764	CD1 TYR A 346		18.331				6
ATOM		CE1 TYR A 346		18.044				6.
ATOM		CD2 TYR A 346		16.710				6
ATCM		CE2 TYR A 346		16.416				5
ATCM		CZ TYR A 346		17:086				8
ATCM	2769	OH TYR A 346	1	16.806				6
ATCM	2770)	20.466				8
ATCM	2771		,	21.101				7
ATCM		N MET A 347	•	20.757	33.443	,		

110/263

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	2222 6	5 N	MET A 347		21.859	5	4.546	59.388	1.00 45	5.89	6
ATOM	2773 C		ET A 347		21.950	5	3.433	58.353	1.00 45	5.51	6
ATOM	2774 C				20.727			58.244	1.00 4	5.01	6
MOTA	2775 C		ET A 347					57.066	1.00 4		16
ATOM	2776 S	D M	MET A 347		21.062				1.00 4		6
ATOM		Εŀ	ÆT A 347		21.545			55.676			6
	2778 C		MET A 347		23.188	5	5.286	59.404	1.00 4		
ATOM -	_		MET A 347		24.129	5	4.888	60.098	1.00 4		8 .
MOTA	2779 0				23.259		6.351	58.610	1.00 4		7 .
MOTA	2780 N	1 1	LEU A 348		24.458		7.178	58.499	1.00 4	8.86	6
ATOM	2781 C	:A I	LEU A 348				8.082	57.269	1.00 4		6
MOTA	2782 C		LEU A 348		24.355				1.00 4	A 4.7	6
ATOM	2783 C	G 1	LEU A 348		24.280		57.424	55.895	1.00 4	3 62	6
	2784	ו ומי	LEU A 348		23.908		8.476	54.859	1.00 4	3.02	
MOTA	2785	בחים	LEU A 348	•	25.618	5	56.757	55.565-	1.00 4	2.53	6
MOTA	_		LEU A 348		24.644		58.049	59.738	1.00 4	9.33	6
MOTA		-	LEU A 348		25.765		58.369	60.123	1.00 4	9.78	8
MOTA	• -) :	LEU A 346		23.537		58.428	60.358	1.00 4	8.34	7 -
MOTA	2788 1	1	GLU A 349				59.279	61.533	1.00 4	9.24	6
ATOM	2789 _0		GLU A 349		23.591	_		61.811	1.00 4	8.36	6
MOTA	2790		GLU A 349		22.198		59.848		1.00 4	15 52	6
MOTA		CG	GLU A 349		21.628	-	60.584	60.607	1.00 4	12 04	6
	• . • .	CD .	GLU A 349		22.598	-	61.619	60.065	1.00	12.34	8
MOTA	2793		GLU A 349		22.93		62.560	60.812	1.00 4	10.82	
MOTA		OES	GLU A 349		23:02	3	61.483	58.900	1.00		8
ATOM	-	OE2	GLU A 349		24.11	9.	58.531	62.745	1.00 4		6
MOTA		С	GLU A 343		25.22		58.783	63.219	1.00 4	47.87	· 8
MOTA	2796	0	GLU A 349				57.602	63.248	1.00	48.97	7
MOTA	2797	N	THR A 350		23.32	-	56.832	64.398	1.00	50.70	6
ATOM	2798	CA	THR A 350		23.74			65.342		51.02	6
ATOM	2799	CB	THR A 350		22.55		56.596		1.00		8
ATOM		0G1	THR A 350		22.07	1	57.865	65.803	1.00	93.11 E1 50	6
		CG2	THR A 350		22.98	3	55.763	66.537	1.00	31.30	6
MOTA		C	THR A 350		24.36	1	55.507	63.954	1.00	49.50	
MOTA	-	0	THR A 350		23.97		54.947	62.923	1.00	50.55	8
MOTA			LEU A 351		25.33		55.028	64.725	1.00	46.88	7
MOTA	2804	N	TEO W 221		26.01		53.781	64.417	1.00	45.35	6
MOTA	2805	CA	LEU A 351		27.34		53.726	65.185	1.00	47.05	6
MOTA	2806	CB	LEU A 351		28.25		52.502	65.072	1.00	49.54	6
ATOM	2807	CG	LEU A 351					65.766	1 00	51.50	6
ATOM	2808	CD1	LEU A 351		29.57		52.777	65.692		48.35	6
ATOM	2809	CD2	LEU A 351		27.60		51.302			44.79	6
MOTA	2810	С	LEU A 351		25.14		52.584	64.772	1.00	41.45	8
	2811	Ö	LEU A 351		25.13	1	51.578	64.061	1.00	45.43	7
ATOM	2812	N	LYS A 352		24.42	0	52.711	65.880		45.27	
ATOM		CA	LYS A 352		23.53	1	51.662	66.375		44.62	6
MOTA	2813		LYS A 352		23.76	4	51.464	67.873	1.00	42.23	6
MOTA	2814	CB	LYS A 352		25.19		51.075	68.187	1.00	44.94	6
MOTA	2815	CG	LIS A 332		25.57		51.262	69.650		46.80	6
MOTA	2816	CD	LYS A 352		24.76		50.389	70.581		45.79	. 6
MOTA	2817	CE	LYS A 352				50.586	71.975		47.31	7
ATOM	2818	NZ	LYS A 352		25.23			66.116		45.12	6
ATOM	2819	С	LYS A 352		22.09		52.087			47.07	8
ATOM	2820	Ο.	LYS A 352		21.83		53.236			44.62	7
ATOM	2821	N	ASP A 353		21.1		51.161	66.285		46.43	6
	2822	CA	ASP A 353		19.7	61	51.474			40.43	6
ATOM		CB	ASP A 353		19.3	02	50.943			49.38	0
ATOM	2823		ASP A 353		19.8	13	49.546	64.396	.1.00	51.52	6
ATOM	2824	CG			21.0		49.396		1.00	55.36	8
MOTA	2825	ODI	ASP A 353		19.0		48.596		1.00	52.35	8
MOTA	2826	OD2	2 ASP A 353				50.968			45.90	6
MOTA	2827	С	ASP A 353		18.8					45.98	
ATOM	2828	0	ASP A 353		19.1		50.001			45.86	
ATOM	2829	N	PRO A 354		17.6		51.629			45.36	
		CD	PRO A 354		17.1		52.775			45 57	
MOTA		CA	PRO A 354		16.7	23	51.243			45.52	
ATOM			PRO A 354		15.5		52.245		9 1.00	44.77	6
ATOM		CB	PRO A 354		15.6	81	52.513	66.66	4 1.00	4506	6
ATOM		CC	220 7 3E4		16.2		49.804		B 1.00	44.13	, 6
ATOM	2834	C	PRO A 354		16.2		49.27		8 1.00	42.90) 8
STOM		0	PRO A 354				49.27			42.77	7
ATOM		21	TRP A 355		15.8	41				43.35	
ATOM	0007	CA	TRP A 355		15.3	28	47.80			47.1	
ATOM		CB			14.9	82	47.22	5 70.53	, <u>1.0</u> 0		_
AIUN			_						-		

MOTA

111/263 Figure 17-44

16.168 46.752 71.322 1.00 52.43 CG TRP A 355 2839 MOTA 45.391 71.519 1.00 53.15 16.574 CD2 TRP A 355 MOTA 2840 45.416 72.238 1.00 54.97 6 CE2 TRP A 355 17.789 2841 MOTA 1.00 53.39 44.153 71.155 6 CE3 TRP A 355 16.031 2842 MOTA 1.00 54.39 71.916 17.125 47.526 CD1 TRP A 355 2843 MOTA 72.468 1.00 57.31 46.731 18.103 NE1 TRP A 355 2844 ATOM -6 72,602 1.00 54.97 18.469 44.249 CZ2 TRP A 355 2845 MOTA 1.00 55.77 6 71.518 42.995 16.706 CZ3 TRP A 355 2846 MOTA 1.00 54.84 6 72.234 CH2 TRP A 355 17.913 43.052 2847 MOTA 68.230 47.690 1.00 41.94 6 TRP A 355 14.177 MOTA 2848 С 1.00 41.39 8 67.915 13.508 48.677 TRP A 355 2849 0 MOTA 67.775 1.00 38.60 7 13.942 46.471 ARG A 356 2850 N MOTA 1.00 36.55 46.185 66.866 12.855 ARG A 356 2851 CA MOTA 1.00 35.06 46.044 65.451 6 13.413 ARG A 356 2852 CB MOTA 1.00 32.47 6 64.976 14.120 47.308 ARG A 356 CG 2853 MOTA 1.00 29.54 63.733 6 47.082 ARG A 356 14.969 2854 CD MOTA 7 15.600 63.296 1.00 28.91 48.323 ARG A 356 2855 NE MOTA 1.00 30.60 6 16.514 48.403 62.335 ARG A 356 2856 CZ ATOM 1.00 33.52 47.305 16.916 61.702 NH1 ARG A 356 2857 MOTA 7 ·61.996 1.00 30.10 17.020 49.582 NH2 ARG A 356 2858 MOTA 1.00 36.01 6 67.361 12.270 44.879 ARG A 356 2859 С MOTA 43.831 66.742 1.00 38.38 8 12.447 ARG A 356 MOTA 2860 0 1.00 36.04 11.587 44.949 68.499 **GLY A 357** 2861 N ATOM 1.00 36.08 11.001 9.514 43.758 69.085 **GLY A 357** 2862 CA MOTA 43.596 1.00 34.51 68.851 **GLY A 357** 2863 С ATOM 1.00 36.77 8 67.943 8.943 44.196 **GLY A 357** 2864 0 MOTA 69.687 1.00 36.04 7 8.892 42.772 **GLY A 358** 2865 N ATOM 1.00 32.26 6 42.506 69.593 7.466 GLY A 358 CA MOTA 2866 1.00 29.85 7.106 70.385 41.263 **GLY A 358** 2867 С MOTA 40.839 71.288 1.00 28.86 8 7.832 **GLY A 358** 2868 0 MOTA 1.00 30.88 7 40.667 70.055 5.975 **GLU A 359** 2869 N ATOM 1.00 32.58 1.00 38.60 6 70.743 39.455 5.550 **GLU A 359** 2870 CA ATOM 70.604 39.289 **GLU A 359** 4.034 CB MOTA 2871 1.00 47.44 71.222 40.435 3.230 GLU A 359 2872-CG MOTA 70.445 1.00 50.93 6 1.957 40.762 **GLU A 359** MOTA 2873 CD 8 70.221 1.00 52.13 OE1 GLU A 359 OE2 GLU A 359 39.852 1.123 2874 ATOM 1.00 51.03 70.061 8 1.798 41.942 2875 ATOM 1.00 28.29 6 70.091 38.275 6.250 **GLU A 359** 2876 C ATOM 1.00 27.88 6.790 38.382 68.997 2877 **GLU A 359** 0 ATOM 1.00 27.97 7 70.772 VAL A 360 VAL A 360 6.263 37.147 2878 N MOTA 1.00 25.86 6 35.957 70.193 6.859 ATOM 2879 CA 6 1.00 22.02 71.237 35.168 VAL A 360 7.673 2880 CB MOTA 1.00 19.45 6 33.849 70.641 CG1 VAL A 360 8.155 2881 MOTA 1.00 17.88 6 36.009 71.698 8.850 CG2 VAL A 360 ATOM 2882 1.00 28.04 69.670 5.703 35.099 VAL A 360 2883 С MOTA 8 1.00 27.34 70.440 34.655 VAL A 360 4.842 2884 C MOTA 1.00 27.70 7 68.358 34.898 5.663 ARG A 361 2885 N MOTA 67.765 1.00 32.85 6 34.091 ARG A 361 4.612 2886 C.. ATOM 34.164 1.00 32.30 6 66.242 ARG A 361 4.693 MOTA 2887 CB 1.00 38.81 65.687 4.243 35.504 ARG A 361 CG 2888 MOTA 64.201 1.00 40.09 6 ARG A 361 4.546 35.653 CD 2889 MOTA 1.00 38.77 63.961 35.812 5.974 ARG A 361 NE 2890 ATOM 6 1.00 39.21 62.763 6.514 35.989 ARG A 361 2891 CZ MOTA 7 1.00 40.79 61.685 36.027 5.748 NH1 ARG A 361 MOTA 2892 7 1.00 42.94 36.145 62.643 NH2 ARG A 361 7.822 ATOM 2893 1.00 35.65 68.222 32.638 4.689 ARG A 361 2894 С MOTA 1.00 37.08 8 32.097 68.471 5.768 ARG A 361' 2895 0 MOTA 1.00 37.80 7 68.347 3.526 32.017 LYS A 362 2896 N MOTA 1.00 39.91 6 68.757 LYS A 362 30.626 3.436 CA 2897 MOTA 1.00 43.43 6 68.648 LYS A 362 30.152 1.982 2898 CB MOTA 1.00 45.11 6 30.803 69.640 LYS A 362 1.014 2899 CG MOTA 1.00 49.43 32.346 69.673 1.117 LYS A 362 CD 2900 ATOM 1.00 45.02 68.327 LYS A 362 0.813 33.022 CE 2901 MOTA 1.00 41.08 68.422 34.509 0.962 NZ LYS A 362 2902 MOTA 1.00 39.25 67.831 LYS A 362 4.320 29.809 2903 С ATOM 1.00 35.45 68.248 4.953 28.835 LYS A 362 2904 0

2970

ATOM

Figure 17-45 **GLU A 363** 2905 N 5.147 **GLU A 363** CA 2906 GLU A 363 5.225 CB 2907

1.00 41.13 4.358 30.229 66.568 MOTA 6 29.554 65.539 1.00 43.96 ATOM 6 1.00 45.90 64.278 30.416 1.00 50.68 6 MOTA 63.741 30.876 GLU A 363 3.892 2908 CG MOTA 1.00 54.11 6 62.507 31.738 4.045 **GLU A 363** 2909 CD ATOM 1.00 53.90 8 61.494 4.571 31.224 OE1 GLU A 363 MOTA 2910 1.00 56.05 8 62.552 32.927 3.648 OE2 GLU A 363 2911 MOTA 6 1.00 42.39 66.046 29.296 6.558 GLU A 363 2912 C ATOM 65.989 1.00 41.48 8 7.062 28.169 GLU A 363 0 2913 MOTA 1.00 37.27 7 66.540 30.360 VAL A 364 7.183 2914 N 1.00 35.30 MOTA 67.064 8.535 30.291 VAL A 364 2915 CA MOTA 1.00 36.88 6 67.469 31.696 9.038 VAL A 364 CB MOTA 2916 1.00 37.77 6 31.599 68.043 CG1 VAL A 364 10.444 2917 1.00 34.78 MOTA 6 32.628 66.252 9.018 CG2 VAL A 364 2918 1.00 33.01 MOTA 6 68.268 29.361 8.650 VAL A 364 С 2919 MOTA 1.00 31.55 8 68.379 28.614 VAL A 364 9.622 2920 0 MOTA 1.00 32.61 7 7.664 29.409 69.165 LYS A 365 2921 N MOTA 70.362 1.00 30.96 6 28.567 7.674 LYS A 365 CA 2922 MOTA 1.00 30.13 6 71.358 6.598 29.010 LYS A 365 CB 2923 MOTA 6 1.00 36.02 71.899 30.409 6.826 LYS A 365 CG 2924 1.00 38.94 MOTA 72.995 6 30.781 5.837 LYS A 365 CD 2925 1.00 41.58 ATOM 6.120 32.187 73.509 LYS A 365 2926 CE 1.00 44.29 7 MOTA 74.585 5.191 32.611 LYS A 365 NZ 2927 MOTA 1.00 30.32 6 70.007 27.114 7.452 LYS A 365 2928 С 1.00 31.32 8 ATOM 70.442 8.195 26.237 LYS A 365 2929 0 1.00 29.85 7 MOTA 69.209 6.427 26.863 ASP A 366 N 2930 ATOM 1.00 32.07 25.509 68.807 6.115 ASP A 366 2931 CAATOM 1.00 35.98 67.818 4.948 25.522 ASP A 366 CB 2932 MOTA 1.00 39.88 6 68.381 26.206 3.711 ASP A 366 CG 2933 MOTA 1.00 40.16 69.359 3.124 25.692 OD1 ASP A 366 2934 ATOM 67.848 1.00 43.21 8 27.266 3.326 OD2 ASP A 366 1.00 33.07 2935 MOTA 68.161 24.866 ASP A 366 7.343 2936 С 1.00 32.64 MOTA 8 68.540 7.753 23.763 ASP A 366 MOTA 2937 0 7 1.00 31.89 7.932 25.565 67.193 THR A 367 2938 N ATOM 1.00 31.17 6 9.088 66.490 25.045 THR A 367 2939 CA MOTA 65.572 1.00 31.55 6 26.070 9.712 THR A 367 CB 2940 1.00 34.37 ATOM 26.620 64.714 OG1 THR A 367 8.707 2941 MOTA 1.00 33.55 6 64.723 25.404 10.780 CG2 THR A 367 2942 MOTA 1.00 33.09 6 67.472 10.146 24.633 THR A 367 2943 C 8 MOTA 1.00 38.62 67.485 23.476 10.586 THR A 367 0 2944 7 MOTA 68.298 1.00 31.85 25.579 10.570 LEU A 368 N 2945 1.00 32.87 MOTA 69.288 25.264 11.582 LEU A 368 2946 CA 1.00 27.73 ATOM 70.179 11.848 26.478 LEU A 368 ATOM 2947 СЭ 1.00 29.05 6 69.588 12.887 14.260 27.449 LEU A 368 CG 2948 6 MOTA 1.00 23.05 26.777 69.541 CD1 LEU A 368 2949 6 ATOM 68.193 1.00 26.53 12.473 27.896 CD2 LEU A 368 2950 1.00 35.16 ATOM 70.107 24.053 11.157 LEU A 368 С 2951 ATOM 1.00 35.18 8 23.077 70.217 11.910 LEU A 368 2952 0 7 ATOM 1.00 37.56 70.649 9.942 24.101 **GLU A 369** N 2953 1.00 40.23 MOTA 71.442 22.993 GLU A 369 9.431 2954 CA 71.770 - 1.00 42.07 ATOM 6 23.216 7.956 **GLU A 369** CB 2955 1.00 48.51 6 MOTA 24.460 72.617 7.722 GLU A 369 2956 CG 1.00 51.93 6 MOTA 24:616 73.067 6.281 GLU A 369 CD 2957 R MOTA 1.00 52.84 73.782 23.724 5.777 OE1 GLU A 369 2958 1.00 58.33 8 MOTA 72.710 25.636 5.652 OE2 GLU A 369 2959 6 MOTA 1.00 41.14 70.701 21.672 9.633 GLU A 369 2960 C 8 MOTA 1.00 41.87 71.286 20.684 10.087 **GLU A 369** 0 2961 1.00 39.65 MOTA 21.653 69.411 9.309 LYS A 370 N 2962 MOTA 68.636 1.00 38.26 9.497 20.443 LYS A 370 CA 2963 1.00 40.63 6 MOTA 67.166 20.654 9.144 LYS A 370 CB 2964 1.00 44.49 6 MOTA 66.854 7.675 20.597 LYS A 370 CG 2965 1.00 49.95 ٠6 ATOM 20.358 65..363 LYS A 370 7.495 2966 CD 6 ATOM 1.00 54.28 65.015 6.052 20.023 LYS A 370 CE 2967 5.890 19.679 10.948 20.034 11.261 18.930 1.00 55.44 7 ATOM 63.574 LYS A 370 2968 NZ 1.00 37.85 ATOM 68.730 LYS A 370 С 2969 69,156 1.00 37.95 8 ATOM LYS A 370 0

_						20 044	68.325	1.00 37.78	7
ATOM	2971	N	ALA A	371	11.827	20.944		1.00 36.39	6
ATOM	2972	CA	ALA A		13.264		••••		6
ATOM	2973	CB	ALA A		14.007	22.030		1.00 37.73	6
ATOM	2974	С	ALA A		13.719	19.972			8
ATOM	2975	0	ALA A	371	14.424	18.964			7
MOTA	2976	N	ALA A	372	13.317	20.478			6
ATOM	2977	CA	ALA A	372	13.695	19.848	72.024	1.00 32.22	
MOTA	2978	СВ	ALA A	372	12.946	20.486	73.165	1.00 28.27	6
ATOM	2979	c	ALA A		13.372	18.362	71.953	1.00 31.75	6
	2980	Õ	ALA A	372	14.183	17.517	72.338	1.00 31.56	8
MOTA	2981	N	ALA A	373	12.187	18.059	71.432	1.00 32.72	7
MOTA	2982	CA	ALA A		11.710	16.684	71.305	1.00 32.32	6
MOTA	2983	CB	ALA A	373	10.206	16.689	71.103	1.00 30.18	6
MOTA	2984	c	ALA A	373	12.385	15.921	70.172	1.00 33.13	6
MOTA	2985	OTI	ALA A	373	13.078	.14.926	70.468	1.00 35.87	8
MOTA	2986	011	ALA A	373	12.218	16.320	69.003	1.00 34.11	8
ATOM		ZN	ZN Z	951	22.693	34.497	53.990	1.00 36.45	6
MOTA	2987		WAT S		35.654	44.211	49.416	1.00 9.27	8
ATOM	2988	0112	WAT S	2	24.480	33.130	53.069	1.00 21.27	8
MOTA	2989		WAT S		22.124	30.277	59.314	1.00 14.69	8
MOTA	2990	0112	WAT S		13.839	20.611	75.741	1.00 27.94	8
MOTA	2991	0112	WAT S	5 5	34.033	41.903	46.522	1.00 44.54	8
MOTA	2992		WAT S		15.039	42.130	55.781	1.00 23.79	8
MOTA	2993	OHZ	WAT S		32.737	41.397	75.900	1.00 15.80	8
ATOM	2994		WAT S		11.367	22.606	58.814	1.00 23.37	8
MOTA	2995			_	13.909	18.160	65.105	1.00 29.93	8
MOTA	2996				29.655	56.108	58.029	1.00 50.54	8
MOTA	2997	OH2	WAT		45.405	17.964	51.885	1.00 9.28	8
MOTA	2998		WAT		21.870	35.873	34.515	1.00 32.78	8
MOTA	2999		WAT S		43.504	35.670	33.779	1.00 28.85	8
MOTA	3000	OHA	TAW S	_	2.054	37.997	68.430	1.00 40.53	8
MOTA	3001		WAT		49.730	28.024	55.966	1.00 21.42	8
MOTA	3002		WAT		47.503	32.289	34.336	1.00 26.13	8 .
ATOM	3003	OH	WAT :		6.101		64.434	1.00 21.69	8
MOTA	3004	OH.	TAW S	s 18	10.761		45.836	1.00 15.79	8
MOTA	3005		WAT		9.146		61.441	1.00 16.68	8
MOTA	3006	On	WAT	s 20	5.684		76.599	1.00 37.53	8
MOTA	3007	OR	2 WAT		14.896		49.117	1.00 34.17	8
ATOM	3008		2 WAT		43.346		36.825	1.00 35.64	8
MOTA	3009		WAT		0.516		69.174	1.00 21.02	8
ATOM	3010		2 WAT		41.270		29.717	1.00 29.80	8
ATOM	3011			s 25	17.818		54.584	1.00 27.92	8
MOTA	3012			S 26	21.512		56.912	1.00 16.77	8
MOTA	3013			S 27	21.211		48.347	1.00 23.93	8
MOTA	3014		2 WAT		47.805		56.619	1.00 23.73	8
ATOM	3015		2 WAT		44.624			1.00 16.79	8
MOTA	3016		2 WAT		31.096	16.437	51.311	1.00 26.61	8
MOTA	3017		2 WAT		39.837		55.145	1.00 32.28	8
MOTA	3018	Ou	2 WAT		11.660		63.704	1.00 22.94	8
MOTA	3019		2 WAT	s 33	49.899		53.058	1.00 26.85	8
ATOM	3020		2 WAT		34.624			1.00 21.18	8
MOTA	3021		2 WAT		26.926		62.444	1.00 27.01	8
MOTA	3022		2 WAT		8.893		63.905	1.00 27.68	8
MOTA	3023		2 WAT	s 37	23.38			1.00 24.42	8
MOTA	3024				48.48			1.00 34.86	8
MOTA	3025		2 WAT		43.38			1.00 25.68	8
ATOM	3026		12 WAT		42.90			1.00 29.45	8
MOTA	3027				20.52			1.00 22.35	8
ATOM	3028				13.31			1.00 23.32	8
ATOM	3029		12 WAT		9.78			1.00 33.51	8
ATOM			12 WAT	s 43	36.08			1.00 47.75	8
ATOM			12 WAT		14.83		_	1.00 50.96	8
ATOM			12 WAT	s 45	54.16			1 1.00 22.66	8
ATOM			H2 WAT	s 46	38.94			9 1.00 33.73	8
ATOM			H2 WAT	5 47 5 48	29.98	0 18.11		0 1.00 35.80	8
. ATOM	303		H2 WAT	_	31.87				8
ATOM		6 O	H2 WAT	5 43	52.07	_ 33.0,	•		
			•						

114/263

		m C	50	39.863	14.629	64.307	1.00 24.19	8
ATOM	3037	OH2 WAT S					1.00 27.78	8
MOTA	3038	OH2 WAT S	51	26.119	29.471	38.549		
		OH2 WAT S	52	48.070	41.589	44.011	1.00 36.38	8
MOTA	3039			50.802	29.649	52.495	1.00 31.04	8
ATOM	3040	OH2 WAT S	53				1.00 20.96	8
MOTA	3041	OH2 WAT S	54	49.540	35.532	71.585		
•	3042	OH2 WAT S	55	6.887	23.426	64.961	1.00 17.49	8
ATOM -				25.698	39.891	37.674	1.00 51.51	8
ATOM	3043	OH2 WAT S	56			-	1.00 37.34	8
MOTA	3044	OH2 WAT S	57	45.498	44.101	55.393		
		CH2 WAT S	58	44.661	34.733	46.902	1.00 44.52	8
MOTA	3045		59	21.912	21.320	79.233	1.00 26.96	8
ATOM	3046	OH2 WAT S				77.320	1.00 27.74	8
MOTA	3047	OH2 WAT S	60	27.290	21.016			
	3048	OH2 WAT S.	61	19.809	49.810	61.716	1.00 46.14	8
MOTA			62	30.843	18.035	41.441 -	1.00 42.23	8
MOTA	3049			19.055	33.379	60.511	1.00 28.99	8.
MOTA	3050	OH2 WAT S	63				1.00 34.93	8
ATOM	3051	OH2 WAT S	64	47.925	33.253	61.470		
	3052	OH2 WAT S	65	32.500	36.000	41.000	1.00 35.33	8 -
ATOM			66	27.245	56.551	44.579	1.00 34.19	8
ATOM	3053	OH2 WAT S			32.914	54.669	1.00 41.89	8
MOTA	3054	OH2 WAT S	67	5.176				8
ATOM	3055	OH2 WAT S	68	41.159	51.018	49.348	1.00 27.31	
		CH2 WAT S	69	12.869	50.298	61.877	1.00 31.30	8
MOTA	3056	UNZ WAI S		17.499	12.826	63.854	1.00 24.91	8
ATOM	3057	OH2 WAT S	70			53.999	1.00 18.76	8
ATOM .	3058	OH2 WAT S	.71	27.152	12.189			
	3059	OH2 WAT S	72 -	25.213	54.809	67.866	1.00 61.35	8
ATOM		OH2 WAT S	73	17.671	48.515	53.188	1.00 37.63	8
ATOM	3060	UNZ WAT 5	74	23.765	60.846	66.579	1.00 21.81	8
MOTA	3061	OH2 WAT S				70.698	1.00 34.04	8
MOTA	3062	CH2 WAT S	75	35.535	27.040			8
ATOM	3063	OH2 WAT S	76	26.280	16.065	76.564	1.00 32.20	
		OH2 WAT S	77 .	18.451	25.555	45.150	1.00 28.55	8
MOTA	3064.		78	10.446	61.273	48.633	1.00 44.74	8
MOTA	3065	CH2 WAT S			24.051	73,017	1.00 35.45	8
ATOM	3066	OH2 WAT S	79	13.256				8
ATOM	3067	OH2 WAT S	80	23.571	13.292	69.937	1.00 49.49	
		OH2 WAT S	81	29.891	18.071	46.109	1.00 22.84	8
MOTA	3068			12.886	42.723	75.807	1.00 35.31	8.
ATOM	3069	OH2 WAT S	82		15.471	45.004	1.00 47.24	8
ATOM	3070	OH2 WAT S	83 ·	41.348				8
MOTA	3071	OH2 WAT S	84	13.406	44.647	71.349	1.00 49.67	
	3072	OH2 WAT S	85	30.444	35.217	51.882	1.00 38.15	8
MOTA			86	5.217	40.817	61.244	1.00 19.51	8
ATOM	3073			8.891	21.532	56.838	1.00 30.72	8
MOTA	3074	CH2 WAT S	87				1.00 22.92	8
ATOM	3075	CH2 WAT S	88	41.816	25.022	72.452		
	3076	OH2 WAT S	89	50.621	36.644	60.248	1.00 29.29	8
ATOM		_	90	26.008	34.532	49.627	1.00 45.42	8
MOTA	3077	••••		8.131	39.168	54.903	1.00 31.50	8
ATOM	3078	OH2 WAT S	91			57.551	1.00 34.73	8
MOTA	3079	OH2 WAT S	92	16.591				8
MOTA	3080	OH2 WAT 5	93	34.773	54.065	69.382	1.00 36.05	
		OH2 WAT 5	94	42.105	31.720	71.257	1.00 35.49	8
MOTA	3081			29.684		73.172	1.00 35.17	8
MOTA	3082	CH2 WAT S	95			38.934	1.00 41.68	8
MOTA	3083	OH2 WAT S	96	26.411	37.420		1.00 50.77	8
ATOM	3084	OH2 WAT S	97	41.183		62.927	1.00 30.77	
		OH2 WAT S	98	21.167	6.202	63.102	1.00 33.36	8
ATOM	3085			25.060			1.00 46.63	8
ATOM	3086	OH2 WAT S	99		-		• -	8
ATOM	3087	OH2 WAT S	100	37.304				.8
	3088	OH2 WAT S	101	15.911	54.635		1.00 29.88	
ATOM		OH2 WAT S	102	48.730		59.572	1.00 37.97	8
ATOM	3089	CHZ WAI S	102	24.029			1.00 25.23	8
MOTA	3090	OH2 WAT S	103					8
ATOM	3091	OH2 WAT S	104	42.477				
	3092		105	29.984	22.945			8
MOTA		OH2 WAT S	106	40.850	36.936	31.885	1.00 43.26	8
MOTA	3093	ONZ WAI S	100	9.750				8
ATOM	3094	OH2 WAT S	10/					8
MOTA	3095	CH2 WAT S	108	7.618			T.00 40.03	
			109	17.603	13.771			8
ATOM			110	22.590			1.00 34.81	8
atom	3097	CH2 WAT S	110					8
ATOM		CH2 WAT S	111	21.03				8
		OH2 WAT S	: 112	24.79				
MOTA			: 113	40.75	47.494		1.00 46.98	8
aton			114	7.70			1.00 34.08	8
ATOM			114					8
ATOM		OH2 WAT S	115	32.37	5 49.13	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0005	-

ATOM	3103	OH2 WAT 5 116	5.596	17.009		1.00 39.15	8
ATOM	3104	OH2 WAT S 117	20.194	50.998		1.00 19.73	8
	3105	OH2 WAT S 118	23.853	64.927		1.00 27.16	8
ATOM	3105	OH2 WAT S 119	9.277	43.601		1.00 32.31	8
ATOM	3107	OH2 WAT 5 120	15.613	24.398		1.00 55.20	8
MOTA		OH2 WAT 5 121	33.110	16.122	54.229	1.00 35.91	8
MOTA	3108	OH2 WAT S 122	26.772	34.085	33.852	1.00 37.49	8
MOTA	3109	OH2 WAT S 122	28.654	37.783	75.829	1.00 47.30	8
MOTA	3110	OH2 WAT S 123	49.180	22.653	59.678	1.00 37.33	8
ATOM	3111	OH2 WAT S 125	20.561	27.788	65.975	1.00 67.86	8
ATOM	3112		34.251	13.344	57.366	1.00 36.18	8
ATOM	3113		49.215	36.854	48.117	1.00 33.63	8
MOTA	3114		45.826	19.588	41.601	1.00 44.07	8
MOTA	3115	OH2 WAT S 128	18.693	56.382	64.014	1.00 47.77	8
MOTA	3116	OH2 WAT S 129	44.181	24.202	36.963	1.00 32.70	8
MOTA	3117	OH2 WAT S 130	19.160	51.901	38.133	1.00 54.07	8
MOTA	3118	OH2 WAT S 131	16.904	36.558	48.679	1.00 42.21	8
MOTA	3119	OH2 WAT S 132	46.851	26.029	34.353	1.00 56.33	8
MOTA	3120	OH2 WAT 5 133	3.925	41.533	68.647	1.00 45.99	8
MOTA	3121	OH2 WAT S 134	44.590	38.382	78.167	1.00 44.50	8
ATOM	3122	OH2 WAT S 135	6.384	19.317	71.166	1.00 28.17	8
ATOM	3123	OH2 WAT S 136	17.982	39.823	66.487	1.00 49.31	8
MOTA	3124	OH2 WAT S 137	8.317	22.286	61.863	1.00 43.42	8
MOTA	3125	OH2 WAT S 138		14.196	55.622	1.00 35.55	8
MOTA	3126	OH2 WAT S 139	29.248 30.377	33.180	80.320	1.00 43.94	8
ATOM	3127	OH2 WAT S 140		32.906	27.392	1.00 24.82	8
MOTA	3128	OH2 WAT S 141	41.842 33.971	3.859	64.002	1.00 41.93	8
MOTA	3129	OH2 WAT S 142		8.087	70.916	1.00 49.03	8
MOTA	3130	OH2 WAT S 143	27.314 4.310	39.006	64.550	1.00 32.70	8
MOTA	3131	OH2 WAT S 144	2.940	19.950	63.265	1.00 33.24	8
ATOM	3132	OH2 WAT S 145	24.134	47.625	60.121	1.00 44.24	8
MOTA	3133	OH2 WAT 5 146	25.035	53.746	42.337	1.00 47.82	8
ATOM	3134	OH2 WAT S 147	32.767	38.897		1.00 21.86	8
ATOM	3135	OH2 WAT S 148	37.145	57.288	47.392	1.00 36.13	8
MOTA	3136	OH2 WAT S 149	25.171	18.011	32.273	1.00 38.04	8
ATOM	3137	OH2 WAT S 150	24.054	43.182	55.583	1.00 41.68	8
MOTA	3138	OH2 WAT S 151	27.686	64.936	52.937	1.00 60.62	8
MOTA	3139	OH2 WAT S 152	24.084	39.543	76.589	1.00 22.62	8
MOTA	3140	OH2 WAT 5 153	42.110	10.159	68.662	1.00 46.98	8
MOTA	3141	OH2 WAT S 154	9.675	22.905	75.335	1.00 26.45	8
MOTA	3142	OH2 WAT S 155	4.506	34.799	52.857	1.00 33.84	8
MOTA	3143	OH2 WAT 5 156	32.583	35.051	76.446	1.00 36.27	8
MOTA	3144	OH2 WAT S 157 OH2 WAT S 158	40.341	58.311	60.390	1.00 54.69	8
ATOM	3145		29.473	58.378	71.881	1.00 28.59	8
MOTA	3146	OH2 WAT S 159	11.829	60.543	56.138	1.00 37.67	8
MOTA	3147	OH2 WAT S 160	24.247	48.010	·	1.00 56.62	8
ATOM	3148	OH2 WAT S 161	12.85	33.929	77.503	1.00 29.88	8
MOTA	3149	OH2 WAT S 162	9.49	26.168	59.687		8
MOTA	3150	OH2 WAT S 163	27.424	16.480	38.895	1.00 36.86	8
MOTA	3151	OH2 WAT S 164	8.512	56.634	49.614	1.00 30.08	8
MOTA	3152	OH2 WAT S 165	30.721	13.394	57.919		8
ATOM	3153	OH2 WAT S 166	49.594	38.223	73.903	1.00 29.50	8
ATOM	3154	OH2 WAT S 167	41.994	48.023	74.119	1.00 38.12	8
ATOM	3155	OH2 WAT 5 168	42.092	39.503		1.00 24.47	8
ATOM	3156	OH2 WAT S 169	34.547	12.749		1.00 38.65	8
ATOM	3157	OH2 WAT S 170	15.377	60.862		1.00 32.82	8
ATOM	3158	OH2 WAT S 171	31.854	42.110		1.00 42.43	8
MOTA	3159	OH2 WAT S 172	48.743				8
ATOM	3160	OH2 WAT S 173	48.743 8.723				8
MOTA	3161						8
ATOM	3162		14.257				8
ATOM	3163		31.917				8
MOTA	3164		23.921				8
ATOM	3165	170	27.974				8
ATOM	3166		7.850				8
ATOM	3167	OH2 WAT S 180	22.080				8
MOTA			34.780	48.220	, ,,,,,,,	, 1.00 30.00	•

WO 01/18045 PCT/US00/24700



ATOM ATOM	3169 3170		WAT S		43.893. 29.166	35.526 21.424	52:018 28.950	1.00 47.14 1.00 45.08	8 8
ATOM	3171		WAT S		51.175	51.545	62.599	1.00 33.88	8
ATOM	3172		WAT S		18.520	46.208	42.323	1.00 50.85	8
ATOM	3173		WAT S		44.774	30.219	38.653	1.00 45.36	8
ATOM	3174		WAT S		30.770	9.460	69.837	1.00 32.44	8
MOTA	3175		WAT S		22.157	39.535	78.736	1.00 37.01	8
ATOM	3176			189	11.778	50.526	68.987	1.00 41.34	8
ATOM	3177		WAT S	-	31.339	60.910	49.439	1.00 21.88	8
ATOM	3178		WAT S		31.165		74.907	1.00 27.47	8
ATOM	3179		WAT S		39.705	15.398	70.464	1.00 47.05	8
MOTA	3180				3.668	34.304	72.937	1.00 39.82	8
ATOM	3181			194	25.256	9.360	67.925	1.00 33.21	8
ATOM	3182			195	47.575	17.667	48.773	1.00 40.79	8
ATOM	3183		WAT S		32.017	13.045	34.633	1.00 37.00	8
MOTA	3184	OH2	WAT S	197	35.476	7.006	64.436	1.00 49.59	´ 8
ATOM	3185	OH2	WAT S	198	12.180	16.270	56.288	1.00 47.22	8
ATOM	3186	OH2	WAT S	199	37.133	21.226	75.963	1.00 38.59	8
MOTA	3187	OH2	WAT S	200	40.268	15.712	48.199	1.00 39.24	8
MOTA	3188	OH2	WAT S	201	25.159	17.768	46.858	1.00 49.88	8
MOTA	3189	OH2	WAT S	202	24.593	27.104	65.727	1.00 53.46	8
MOTA	3190	OH2	WAT S	203	36.741	20.267	33.858	1.00 41.90	8
MOTA	3191	OH2			10.013	53.930	47.546	1.00 48.06	8
MOTA	3192	OH2	WAT S	205	22.305	16.731	54.471	1.00 27.07	8
MOTA	3193		WAT S	206	47.454	34.778	74.101	1.00 47.44	8
MOTA	3194		WAT S		35.189	55.767	45.193	1.00 59.49	8
ATOM	3195		WAT S	208	37.827	18.151	36.382	1.00 45.31	8
MOTA	3196		WAT S	209	6.823	37.405	51.989	1.00 58.23	8
MOTA	3197			210	32.040	43.551	36.157	1.00 30.78	8
ATOM	3198			211	17.038	52.360	63.283	1.00 34.08	8
MOTA	3199			212	30.001	18.471	49.568	1.00 33.92	8
MOTA	3200		WAT S	213	23.045	28.615	33.729	1.00 44.22	8
ATOM	3201	-	WAT S	214	26.130	61.496	75.246	1.00 40.49	8
MOTA	3202			215	33.881	32.473	46.604	1.00 39.35	8
MOTA	3203			216	23.887	45.987	44.362	1.00 36.50	8
ATOM	3204			217	6.925	42.281	65.917	1.00 34.22	8
MOTA	3205	OH2	WAT S	218	32.823	8.977	59.213	1.00 27.03	8
END									

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				Residu	e # X	Y	Z	В	Segment	ID
ATOM	1	CB	ALA		46.72		138.208	1.00	56.80	
MOTA	2	С	ALA		47.94	3 12.813	3 138.561	1.00	58.93	
ATOM	3	0	ALA		48.85		2 137.884	1.00	60.99	
ATOM	4	N	ALA	A 2	46.99		140.488		56.88	
ATOM	5	CA	ALA		46.80		139.052		59.41	
ATOM-	6	N	LYS		47.89		138.903		53.81	
MOTA	7	CA	LYS		48.93		138.492		53.62	
ATOM	8	CB	LYS		48.73		139.156		50.26	
ATOM	9	CG	LYS		48.91		140.665		56.64	
ATOM	10	CD	LYS		48.95		141.285		57.18	
ATOM	11	CE	LYS		49.16		142.796			
ATOM	12	NZ	LYS		50.42		142.750		56.74	
ATOM	13	C	LYS		49.06		136.986		54.86	
ATOM	14	õ	LYS	A 3	48.08		136.386		49.95	
ATOM	15	N	VAL		50.28		136.248		44.34	
ATOM	16	CA	VAL		50.60		136.330		46.01	
ATOM	17	CB	VAL		51.90		134.809		42.48	-
ATOM	18		VAL		52.17		134.809		43.42	
ATOM	19		VAL		51.77				39.20	
ATOM	20	C	VAL		50.78		135.310		39.34	
ATOM	21	ō	VAL .			0.310	134.806		38.41	
ATOM	22	N	LYS .		51.659 49.959	7.839	135.351		37.08	
ATOM	23					8.011	133.899		37.79	
MOTA	24	CA	LYS .		50.016		133.515		38.17	
MOTA	25	CB CG	LYS .		48.700	5.915	133.887		38.40	
ATOM	26				48.411	5.803	135.385		42.84	
ATOM	27	CD	LYS .		49.384	4.855	136.070		44.10	
ATOM	28	NZ	LYS .		49.017		137.534		45.97	
ATOM	29		LYS		49.045 50.275	5.894	138.322		51.78	
ATOM	30	С О	LYS A				132.030		38.31	
ATOM	31	Ŋ	LEU A		49.992	7.293	131.201		38.13	
ATOM	32	CA	LEU A		50.817		131.717		35.05	
ATOM	33	CB	LEU A		51.082		130.346		31.46	
ATOM	34	CG	LEU /		52.582	4.592	130.133		2846	
ATOM	35		LEU A		53.094	4.256	128.720		30.91	
ATOM	36		LEU A		52.618	2.084	128.295		33.05	
ATOM	37	CDZ	LEU A		52.630 50.307		127.744		21.96	
ATOM	38	0	LEU ?		50.307		130.164		30.50	
ATOM	39	N	ILE A		49.459		130.955		32.82	
ATOM	40	CA	ILE ?		48.676		129.145 128.893		26.94	
ATOM	41	CB	ILE A	7	47.218		128.493		28.29 28.94	
ATOM	42	CG2	ILE ?	7	46.499		128.041		32.57	
ATOM	43		ILE A		46.447		129.688		36.59	
ATOM	44		ILE A		46.979		130.236		46.80	
ATOM	45		ILE 2		49.341		127.770		31.09	
ATOM	46	0	ILT A		49.600		126.695		27.65	
ATOM	47	N	GL: 3	. 8	49.638	0.201	128.029		27.30	
MOTA	48	CA	GL'. A		50.277		127.016		25.50	
ATOM	49	С	GLY A	. 8	50.578		127.480		30.66	
ATOM	50	0	GLY A	. 8	50.224		128.592		30.02	
ATOM	51	N	THR A		51.238		126.611		28.94	
MOTA	52	CA	THE A	9	51.614	-4.156	126.877	1.00	33.63	
ATOM	53	CB	THE A		50.393	-5.083	126.857	1.00	36.19	
ATOM ·	54		THR A		50.827	-6.441	126.992	1.00	34.87	
MOTA	55		THP A		49.633	-4.931	125.548	1.00	36.49	
ATOM	56	С	THR A		52.567		125.794	1.00	34.83	
ATOM	57	0	THR A		52.545		124.677	1.00	36.91	
ATOM	58	N	LEU A		53.407		126.129	1.00	39.15	
MOTA	59	CA	LEU A		54.345		125.164	1.00		
ATOM	60	CB	LEU A		55.402		125.881	1:00		
ATOM	61	CG	LEU A		56.482		126.687	1.00		
MOTA	62		LEU A		55.870		127.647	1.00		
ATCM	63		LEU A		57.319		127.424	1.00		
ATOM	64	C	LEU A		53.591		124.159	1.00		
ATOM	65	0	LEU A		54.055		123.044	1.00		
ATOM	66.	N	ASP A	11	52.419	-/.519	124.557	1.00	47.28	

ATOM	67 CA ASP A 13	1	51.617 -	8.369 12		1.00 53.30
ATOM	68 CB ASP A 1		50.230 -	8.608 12		1.00 52.35
ATOM	69 CG ASP A 1			9.331 12		1.00 53.33
ATOM	70 OD1 ASP A 1	1				1.00 52.21
ATOM	71 OD2 ASP A 1	1				1.00 58.48
ATOM	72 C ASP A 1	1		7.840 12		1.00 53.33
ATOM	73 O ASP A 1	1				1.00 54.31
ATOM	74 N TYR A 1	2	32			1.00 51.92 1.00 51.41
MOTA		2				1.00 31.41
MOTA		.2				1.00 45.48
MOTA	,,	.2	•			1.00 47.08
ATOM	78 CD1 TYR A 1	.2			22.686 23.263	1.00 47.53
MOTA		.2			20.749	1.00 43.77
ATOM	00 022 224	.2			21.310	1.00 44.16
MOTA	~-	.2			22.566	1.00 48.67
ATOM		12			23.116	1.00 48.65
MOTA		12			19.816	1.00 50.01
ATOM		L2 L2			18.596	1.00 45.56
MOTA	05 0 000	13			20.396	1.00 48.72
ATOM	00	13			19.599	1.00 50.56
ATOM	0, 0	13		-8.727 1	18.857	1.00 53.32
ATOM	00 0	13			17.982	1.00 52.64
MOTA	05 0 0	14	53.045		.19.207	1.00 53.37
MOTA	JU 41 U	14			.18.579	1.00 54.56
MOTA MOTA		14			19.653	1.00 58.02
MOTA		14			20.591	1.00 62.81
MOTA		14			19.918	1.00 61.61 1.00 61.77
ATOM		14			118.734	1.00 61.77 1.00 58.35
MOTA	JO 112 200	14	55.514 -		118.045 117.559	1.00 52.03
ATOM	J, C ===	14			116.942	1.00 51.71
ATOM	JU U	14	50.911 - 51.143	-8.955 _. 1		1.00 46.92
MOTA		15	50.091		116.449	1.00 47.99
MOTA	100 011	15 15	48.959		117.253	1.00 50.40
MOTA	101 02 111	15	48.456		118.386	1.00 53.01
ATOM		15	48.166	-8.255	119.637	1.00 52.10
ATOM	103	15	47.722		120.685	1.00 51.72
ATOM ATOM	105 CD2 TYR A	15			118.208	1.00 54.67 1.00 55.69
ATOM	106 CE2 TYR A	15			119.250	1.00 55.69 1.00 54.18
ATOM	107 CZ TYR A	15	47.561		120.485 121.520	1.00 55.42
MOTA	108 OH TYR A	15		-11.208 -7.617	115.353	1.00 46.20
ATOM	109 C TYR A	15	50.592		115.018	1.00 43.72
ATOM	110 O TYR A	15	49.933 51.758		114.791	1.00 46.29
MOTA	111 N ARG A	16	52.347		113.727	1.00 45.66
ATOM	112 CA ARG A	16	53.779	-7.545	113.441	1.00 50.56
ATOM	113 CB ARG A	16 15	54.677	-7.698	114.636	1.00 56.90
MOTA	114 CG ARG A	16	54.992	-6.388	115.315	1.00 60.72
MOTA	115 CD ARG A	16	56.021	-6.602	116.328	1.00 66.70
MOTA	116 NE ARGA	16	57.211	-7.141	116.070	1.00 66.68
ATOM		16	57.520	-7.519	114.834	1.00 65.68
MOTA	118 NH1 ARG A 119 NH2 ARG A	16	58.093		117.046	1.00 66.33
MOTA MOTA	120 C ARG A	16	51.573		112.429	1.00 44.20 1.00 43.41
MOTA	121 O ARG A	16	50.871	-8.293	112.254	1.00 43.41
ATOM .	122 N TYR A	17	51.715	-6.346		
ATOM	123 CA TYR A	17	51.067	-6.453	110.215 109.565	
ATOM	124 CB TYR A	17	50.913	-5.072 -4.255	110.084	
ATOM	125 CG TYR A	17	49.744	-4.255	111.443	
ATOM	126 CD1 TYR A	17	49.598 48.540	-3.982	111.909	1.00 27.16
ATOM	127 CE1 TYR A	17	48.340	-3.720		1.00 25.78
ATOM	128 CD2 TYR A	17	47.752		109.656	1.00 26.34
ATOM	129 CE2 TYR A	17 17	47.626	-2.659	111.009	1.00 27.28
ATOM	130 CZ TYR A	17	46.602	-1.842	111.450	1.00 22.04
ATOM	131 OH TYR A	17	51.972	-7.350	109.368	3 1.00 41.52
ATOM	132 C TYR A	2.				

					_		
3 MOM	133	0	TYR A	17	53.150	-7.525 109.68	3 1.00 35.63
ATOM				18	51.440	-7.925 108.27	
ATOM	134		PRO A			-7.765 107.75	
ATOM	135	CD	PRO A	18	50.076		
ATOM	136	CA	·PRO A	18	52.205	-8.812 107.39	
MOTA	137	CB	PRO A	18	51.213	-9.091 106.26	
		CG	PRO A	18	50.343	-7.837 106.27	4 1.00 55.13
MOTA	138				53.556	-8.303 106.88	
atom	139	С	PRO A	18		•	
MOTA	140	0	PRO A	18	53.788		
ATOM	141	N	LYS A	19	54.432	-9.261 106.59	
ATOM	142	CA	LYS A	19	55.800	-9.044 106.11	
	143	CB	LYS A	19	56.223	-10.242 105.25	2 1.00 62.34
MOTA			LYS A	19	55.069		37 1.00 67.94
ATOM	144	CG			54.239	-9.963 103.71	
ATCM	145	CD	LYS A	19			
MOTA	146	CE	LYS A	19	53.004		
ATOM	147	NZ	LYS A	19	52.116	-9.701 102.44	
MOTA	148	С	LYS A	19	56.229	-7.757 105.40	
ATOM	149	0	LYS A	19	57.230	-7.150 105.79	
ATOM	150	N	ASN A	20	55.515	-7.338 104.30	57 1.00 49.62
	151	CA	ASN A	20	55.925	-6.130 103.65	52 1.00 50.02
ATOM					55.829	-6.359 102.14	
atom	152	CB	ASN A	20	56.729	-7.487 101.6	
MOTA	153	CG	ASN A	20			
MOTA	154	ODl	ASN A	20	57.948	-7.437 101.8	
ATOM	155	ND2	ASN A	20	56.130	-8.513 101.0	
ATOM	156	С	ASN A	20	55.167	-4.862 104.0	
ATOM	157	ō	ASN A	20	55.481	-3.778 103.5	33 1.00 45.35
	158	N	HIS A	21	54.182	-4.997 104.8	99 1.00 37.46
MOTA					53.374	-3.863 105.3	
ATCM	159	CA	HIS A	21	52.198	-4.355 106.1	
ATCM	160	CB	HIS A	21			
ATOM	161	CG	HIS A	21	51.118		
ATOM	162	CD2	HIS A	21	50.999	-2.314 107.2	
ATOM	163	ND1	HIS A	21	49.993	-3.298 105.5	52 1.00 30.15
ATOM	164	CE1	HIS A	21	49.226	-2.293 105.9	
ATOM	165		HIS A	21	49.814	-1.680 106.9	
		C	HIS A	21	54.194	-2:879 106.1	55 1.00 29.18
MOTA	166			21	55.030	-3.279 106.9	
MOTA	167	0	HIS A		53.965	-1.572 105.9	_
MOTA	168	Ŋ	PRO A	22			
ATOM	169	CD	PRO A	22	53.027	-0.912 105.0	
ATOM	170	CA	PRO A	22	54.702	-0.567 106.7	
ATOM	171	CB	PRO A	22	54.012	0.732 106.3	
ATOM	172	CG	PRO A	22	53.670	0.434 104.8	
ATOM	173	C	PRO A	22	54.624	-0.822 108.2	
ATOM	174	õ	PRO A	22	55.575	-0.538 108.9	81 1.00 27.47
			LEU A	23	53.501	-1.371 108.7	15 1.00 26.64
ATOM	175	N			53.309	-1.644 110.1	
ATOM	176	CA	LEU A	23	51.833	-1.428 110.5	
ATOM	177	CB	LEU A	23			
ATOM	178	CG	LEU A	23	51.356		
ATCM	179	CD1	LEU A	23	49.836	0.103 110.6	
ATCM	180	CD2	LEU A	23	52.086	0.816 111.5	74 1.00 24.15
ATOM	181	C	LEU A	23	53.775	-3.015 110.6	62 1.00 31.64
	182	Ö	LEU A	23	53.252	-3.512 111.6	
ATCM				24	54.753	-3.636 110.0	
MOTA	183	N	LYS A		55.200	-4.929 110.5	
ATCM	184	CA	LYS A	24		-5.810 109.3	
ATOM	185	CB	LYS A	24	55.718		
MOTA	186	CG	LYS A	24	57.178	-5.650 108.9	
ATOM	187	CD	LYS A	24	57.546	-4.259 108.5	
ATOM	188	CE	LYS A	24	58.858	-4.303 107.7	755 1.00 50.44
	189	NZ	LYS A	24	59.959	-4.990 108.4	187 1.00 51.30
ATCM				24	56.282	-4.736 111.5	
ATOM	190	C	LYS A			-5.683 112.2	
ATOM	191	Ð	LYS A	24	56.695	- 111 COO, C-	
ATOM	192	N	ILE A	25	56.729	-3.497 111.7	
ATOM	193	CA	ILE A	25	57.755	-3.200 112.7	739 1.00 30.45
ATOM	194	CB	ILE A	25	58.416	-1.822 112.4	199 1.00 33.37
ATCM	195	CG2		25	59.056	-1.757 111.1	1.00 33.22
	196	CG1	ILE A	25	57.361	-0.722 112.0	562 1.00 30.45
ATOM			ILE A	25	57.930		700 1.00 33.12
· ATCM	197				57.156		
ATCM	198	С	ILE A	25	57.130	-3.163 114.	1.00 3

3.00M	199	0 1	LE A	25	55.967	-2.851 114.310 1.00 28.15
MOTA			BO A	26	57.979	-3.382 115.168 1.00 31.64
MOTA			RO A	26	59.395	-3.768 115.139 1.00 31.11
MOTA			RO A	26	57.507	-3.322 116.556 1.00 31.04
MOTA			PRO A	26	58.709	-3.840 117.347 1.00 32.41
ATOM			PRO A	26	59.454	$-4.691\ 116.324\ 1.00\ 39.33$
ATOM			PRO A	26	57.265	-1.840 116.827 1.00 28.42
MOTA	205		PRO A	26	58.001	-0.994 116.315 1.00 22.23
ATOM	206		ARG A	27	56.251	-1.514 117.614 1.00 24.16
ATOM	207		ARG A	27	55.977	-0.116 117.899 1.00 28.53
MOTA	208		ARG A	27	54.787	0.358 117.048 1.00 29.77
MOTA	209		ARG A	27	55.075	0 191 115.554 1.00 29.64
MOTA	210		ARG A	27	53.918	0.538 114.620 1.00 26.61
MOTA	211		ARG A	27	53.622	1.965 114.517 1.00 28.52
MOTA	212 213		ARG A	27	52.649	2.591 115.173 1.00 29.70
ATOM	213		ARG A	27	51.857	1.924 115.999 1.00 30.17
ATOM	215		ARG A	27	52.451	3.889 114.983 1.00 23.25
MOTA	216		ARG A	27	55.746	0.114 119.387 1.00 30.71
ATOM	217		ARG A	27	56.679	0.490 120.113 1.00 24.60
ATOM	217		VAL A	28	54.529	-0.117 119.863 1.00 23.51
ATOM	219		VAL A	28	54.282	0.093 121.282 1.00 29.33
MOTA	220		VAL A	28	52.800	-0.124 121.635 1.00 34.56
ATOM	221		VAL A	28	52.599	0.002 123.142 1.00 32.42
MOTA	222		VAL A	28	51.947	0.908 120.903 1.00 33.77
MOTA	223		VAL A	28	55.1 5 8	-0.816 122.145 1.00 29.75
ATOM .	224	0	VAL A	28	55.673	-0.394 123.182 1.00 32.49
ATOM ATOM	225		SER A	29	55.341	-2.059 121.718 1.00 26.09
MOTA	226		SER A	29	56.162	-2.982 122.483 1.00 31.39
MOTA	227		SER A	29	56.058	-4.399 121.905 1.00 26.92
ATOM	228		SER A	29	56.562	-4.464 120.579 1.00 33.85
MOTA	229	C	SER A	29	57.609	-2.482 122.453 1.00 34.77
MOTA	230	Ö	SER A	29	58.378	-2.718 123.391 1.00 29.39
ATOM	231		LEU A	30	57.967	-1.778 121.380 1.00 31.20
ATOM	232	CA	LEU A	30	59.317	-1:234 121.240 1.00 32.03
ATOM	233	CB	LEU A	30	59.554	-0.668 119.829 1.00 30.86 -0.550 119.333 1.00 33.22
ATOM	234	CG	LEU A	30	61.008	
ATOM	235	CD1	LEU A	30	61.066	
ATOM	236	CD2	LEU A	30	61.948	-0.135 120.441 1.00 35.11 -0.089 122.236 1.00 30.29
MOTA	237	C	LEU A	30	59.423	0.019 122.984 1.00 27.69
ATOM	238	O.	LEU À	30	60.397	0.769 122.232 1.00 27.38
ATOM	239	N	LEU A	31	58.408	1.915 123.126 1.00 24.94
MOTA	240	ΞA	LEU A	31	58.372	200 24 02
ATOM	241	CB	LEU A	31	57.008	
MOTA	242	CG	LEU A	31	56.918	
MOTA	243	CD1	LEU A	31	55.492 57.851	
MOTA	244		LEU A	31	58.610	
MOTA	245	С	LEU A		59.489	
ATCM	246	0	LEU A		57.831	0.445 125.000 1.00 30.17
MOTA	247	N	LEU A		57.965	1 00 30 EQ
ATOM	248	CA	LEU A		56.944	-1.206 126.601 1.00 30.55
ATOM	249	CB	LEU A		55.458	-0.879 126.402 1.00 29.50
ATOM	250	CG	LEU A		54.611	-2.107 126.727 1.00 28.31
MOTA	251	CDI	LEO Y	32	55.058	0.273 127.287 1.00 31.92
MOTA	. 252		LEU A		59.376	-0.597 126.657 1.00 33.56
MOTA	253	0	LEU A		59.961	0.243 127.682 1.00 36.51
MOTA	254	 	ARG A		59.926	5 -1.429 125.777 1.00 29.75
MOTA	255	N	ARG A		61.271	-1.953 125.999 1.00 33.49
ATOM	256		ARG A		61.630	3 -3.003 124.945 1.00 39.50
ATOM	257		ARG A		60.814	4 -4.283 125.024 1.00 44.40
ATOM	258		ARG A		61.237	7 -5.256 123.933 1.00 53.68
ATOM	259		ARG A		60.515	5 -6.522 124.007 1.00 56.66
MOTA	260		ARG A		60.611	L -7.384 125.014 1.00 58./3
ATOM	261 262		ARG A		61.402	2 -7.121 126.045 1.00 59.32
ATOM	263		ARG		59,91	1 -8.511 124.991 1.00 57.91
MOTA	264 264		ARG A		62.314	
ATOM	204					

								40
ATOM	265	0	ARG A	33	63.288	-0.885	126.722	1.00 26.49
	266	N	PHE A	34	62.103	0.146	125.123	1.00 32.42
ATOM			-	34	63.042	1.253	125.000	1.00 33.37
MOTA	267	CA	PHE A		62.617	2.180	123.858	1.00 31.68
MOTA	268	CB	PHE A	34				1.00 29.05
ATOM	269	CG	PHE A	34	63.653	3.202	123.486	
ATOM	270	CD1	PHE A	34	64.825	2.819	122.838	1.00 29.21
ATOM	271	CD2	PHE A	34	63.458	4.546	123.781	1.00 28.25
			PHE A	34	65.793	3.763	122.484	1.00 29.35
MOTA	272				64.416	5.501	123.435	1.00 32.67
MOTA	273		PHE A.	34		5.108	122.783	1.00 29.08
MOTA	274	CZ	PHE A	34	65.589			1.00 33.47
ATOM	275	С	PHE A	34	63.083	2.042	126.305	
ATOM	276	0	PHE A	34	64.155	2.294	126.852	1.00 27.49
ATOM	277	N	LYS A	35	61.912	2.432	126.802	1.00 29.34
	278	CA	LYS A	35	61.848	3.191	128.042	1.00 31.48
MOTA			LYS A	35	60.406	3.576	128.374	1.00 30.82
MOTA	279	CB			59.803	4.552	127.395	1.00 32.98
ATOM	280	CG	LYS A	35		4.974	127.790	1.00 40.93
ATOM	281	CD	LYS A	35	58.404			
ATOM	282	CE	LYS A	35	57.410	3.827	127.688	
ATOM	283	NZ	LYS A	35	57.754	2.656	128.548	1.00 55.10
ATOM	284	С	LYS A	35	62.443	2.387	129.183	1.00 34.47
	285	ō	LYS A	35	63.136	2.933	130.043	1.00 32.01
MOTA				36	62.180	1 086	129.190	1.00 36.28
ATOM	286	N	ASP A		62.710	0.233	130.242	1.00 37.93
ATOM	287	CA	ASP A	36	62.710			1.00 41.27
ATOM	288	CB	ASP A	36	62.145	-1.178		
ATOM	289	CG	ASP A	36	62.731	-2.117		1.00 43.77
ATOM	290	OD1	ASP A	36	62.660	-1.793	132.360	1.00 43.92
	291	OD2		36	63.261	-3.178	130.765	1.00 45.78
ATOM	292	C	ASP A	36	64.227	0.181	130.174	1.00 38.74
MOTA				36	64.902	0.187		1.00 36.23
MOTA	293	0	ASP A		64.760	0.127		1.00 37.96
MOTA	294	N	ALA A	37		0.080		1.00 39.49
ATOM	295	CA	ALA A	37	66.201			
ATOM	296	CB	ALA A	37	66.525	-0.158		
ATOM	297	С	ALA A	37	66.832		129.244	1.00 40.09
ATOM	298	0	ALA A	37	67.962	1:402		1.00 38.80
	299	N	MET A	38	66.085	2.477		1.00 39.04
MOTA			MET A	38	66.567	3.789		1.00 38.71
MOTA	300	CA			65.965	4.863		1.00 36.66
ATOM	301	CB	MET A	38		4.744		1.00 39.16
MOTA	302	CG	MET A	38	66.335			1.00 37.55
MOTA	303	SD	MET A	38	68.005	5.298		
MOTA	304	CE	MĘT A	38	67.892	7.033		
ATOM	305	С	MET A	38	66.187		130.995	1.00 40.58
ATOM	306	O	MET A	38	66.484	5.173		1.00 38.12
	307	N	ASN A	39	65.530	3.147	1 131.657	1.00 38.41
MOTA			ASN A	39	65.094	3.346	133.039	1.00 42.46
MOTA	308	CA			66.298	3.494		1.00 46.06
ATOM	309	CB	ASN A	39	67.125	2 224		1.00 51.69
MOTA	310	CG	ASN A	39				1.00 54.33
MOTA	311	OD:	1 A5N A	39	66.625	2.17	134.487	1.00 49.13
ATOM	312	ND:	2 ASN A	39	68.396	2 31.	133.695	1.00 49.13
ATOM	313	С	ASN A	39	64.222	4.59	1 133.134	1.00 41.19
ATOM	314	ō	ASN A	39	64.375	5.40	2 134.050	1.00 42.74
	315		LEU A	40	63.301	4.74	5 132.188	1.00 40.22
ATOM		N		40	62.427	5.90	9 132.170	1.00 39.85
MOTA	316				62.524		0 130.812	1.00 40.42
ATOM	317		LEU A				4 130.447	1.00 40.40
MOTA	318			40	63.940	_	120.447	
ATOM ·	319	CD	1 LEU A	40	63.916		3 129.088	
ATOM	320		2 LEU A		64.470		1 131.513	1.00 38.89
	321		LEU A		60.967	5.61	0 132.505	1.00 38.97
MOTA			LEU A		60.076	6.40	9 132.213	1.00 32.32
ATOM	322				60.720		1 133.124	1.00 38.57
ATCM	323		ILE A		59.363			
MOTA	324						5 132.330	
ATOM	325	CB			58.536		1 121 020	
ATOM	326	CG	2 ILE A		.59.137		1 131.820	
ATOM	327			41	57.082			
atom	328				56.147		0 131.676	1.00 44.09
	329		ILE A		59.376	3.05	6 134.619	1.00 42.40
ATOM			ILE A		60.255		5 134.654	1.00 43.05
ATCM	330	, 0	The	. 71				

							35 530	1.00 47.83
ATOM	331	N .	ASP A	42	58.414			
		•		42	58.301	2.183	136.620	1.00 49.23
ATOM	332		_				137.984	1.00 46.60
ATOM	333	CB	ASP A	42	58.243			1.00 52.63
ATOM	334	CG	ASP A	42	59.493		138.284	
	335		ASP A	42	60.614	3.146	138.141	1.00 49.28
MOTA					59.355		138.678	1.00 52.47
ATOM	336		ASP A	42				1.00 51.22
MOTA	337	С	ASP A	42	57.034		136.405	1.00 31.22
	338		ASP A	42	56.048	1.866	135.864	1.00 48.07
MOTA				43	57.072	0.111	136.832	1.00 51.41
ATOM	339	N	GLU A				136.673	1.00 50.67
ATOM	340	CA	GLU A	43	55.945			
	341	CB	GLU A	43	56.234	-2.094	137.412	1.00 54.49
MOTA				43	55.208	-3.178	137.185	1.00 60.55
MOTA	342	CG	GLU A			T	137.974	1.00 66.12
MOTA	343	CD	GLU A	43	55.524			
	344	OE1	GLU A	43	54.761		137.861	1.00 70.33
MOTA				43	56.536	-4.427	138.711	1.00 67.39
MOTA	345	OE2	GLU A				137.178	1.00 50.20
ATOM	346	С	GLU A	43	54.645			1.00 50.20
ATOM	347	0	GLU A	43	53.56 7		136.658	1.00 48.27
			LYS A	44	54.755	0.683	138.186	1.00 49.04
MOTA	348	N			53.601		138.778	1.00 47.56
ATOM	349	CA	LYS A	44				1.00 54.73
ATOM	350	CB	LYS A	44	54.013		140.112	
			LYS A		53.190	3.229	140.542	1.00 58.07
MOTA	351	ÇĞ			53.705		139.853	1.00 61.24
MOTA	352	CD	LYS A	44				1.00 61.93
ATOM	353	CE	LYS A	44	52.849	5.727	140.151	1.00 61.93
			LYS A		51.501	5.644	139.519	1.00 62.80
ATOM	354	NZ			52.929	2.387	137.875	1.00 44.52
ATOM	355	С	LYS A				138.052	1.00 45.31
ATOM	356	0	LYS A	44	51.752	2.701		
	357	N	GLU A		53.674	2.915	136.914	1.00 41.03
ATOM					53.140	3.914	135.994	1.00 41.23
ATOM	358	CA	GLU A	_	53.110	4.810	135.500	1.00 38.52
ATOM	359	CB	GLU A	45	54.271			1.60 40.30
ATOM	360	CG	GLU A	45	54.973	5.572	136.589	
			GLU A		56.241	6.222	136.096	1.00 38.06
MOTA	361	CD			57.170	5.478	135.715	1.00 36.93
MOTA	362	OE1	GLU A					1.00 32.57
ATOM	363	OE2	GLU A	45	56.306	7.467	136.084	
		c	GLU A		52.479	3:253	134.791	1.00 40.69
MOTA	364				51.783	3 907	134.015	1.00 39.77
ATOM	365	0	GLU A				134.645	1.00 36.90
ATOM	366	N	LEU A	46	52.700	1.953		
	367	CA	LEU A	46	52.165	1.207	133.517	1.00 40.46
ATOM				-	53.222	0.219	133.034	1.00 35.52
ATOM	368	CB	LEU A	-	52.873	-0.619		1.00 43.75
ATOM	369	CG	LEU A	46				1.00 42.06
ATOM	370	CD1	LEU A	46	52.571	0.292	130.630	
	371	CD2			54.035	-1.544	131.500	1.00 42.90
MOTA				<u>-</u>	50.852	0.467	133.780	1.00 40.03
ATOM	372	С	LEU A			-0.306		1.00 39.37
MOTA	373	0	LEU 2	46	50.741			1.00 34.03
	374	N	ILE A	A 47	49.861		132.928	
MOTA			ILE	-	48.560	0.068	133.033	1.00 32.12
MOTA	375	CA		_	47.413	1.087		1.00 32.35
TOM	376	CB	ILE .			2.001		1.00 30.60
MOT	377	CG2	ILE .	a 47	46.069	0.360	132.833	
	378		ILE.		47.448	2.015	134.156	1.00 36.56
LOW				_	46.372	3.080	134.162	1.00 35.46
ATOM	379	CD:				0.020	131.882	1.00 33.67
ATOM	380	С	ILE	A 47	48.428	-0.520	131.000	1.00 27.64
ATOM	381	0	ILE	A 47	48.505	-0.532	130.717	
			LYS		48.231	-2.195	132.205	1.00 32.98
ATOM	382	Ŋ		_	48.102			1.00 30.98
MOTA	383	CA	LYS				131.821	1.00 39.21
ATOM	384	CB	ĻYS	A 48	48.038		131.021	1.00 46.81
			LYS		47.956		130.819	
MOTA	385				47.989			1.00 50.75
ATOM	386		LYS					
ATOM	387	CE	LYS	A 48	47.967			
	388		LYS		49.151			
ATOM					46.869	-3.006	5 130.310	
MOTA	389		LYS					
ATCM	390	0	LYS		45.764			
	391		SER	A 49	47.071			
ATOM				_	45.989	-2.80	2 128.033	1.00 29.32
ATOM	392				46.551			1.00 31.53
ATOM	393	CB						
ATOM	394	OG	SER	A 49	47.571			
	395		SER		44.952	2 -3.91	6 128.147	
MOTA					45.295			1.00 34.44
ATOM:	396	5 0	SER	A 47	45.45.		_	

				43.688	-3.582 1	27 922	1.00 32.87
MOTA	397 N		50		-4.582		1.00 31.45
ATOM	398 CA		50	42.632			1.00 28.35
ATOM	399 CB	ARG A	50	41.636	-4.325		
-	400 CG		50	40.729	-3.103		1.00 32.05
ATOM			50	39.653	-3.055	130.008	1.00 30.46
MOTA	401 CD			38.821	-1.850	129.964	1.00 25.21
MOTA	402 NE	ARG A	50			129.016	1.00 28.32
MOTA	403 CZ	ARG A	50	37.930		128.001	1.00 25.45
ATOM	404 NH1	ARG A	50	37.726			1.00 24.92
ATOM	405 NH2	ARG A	50	37.238		129.087	1.00 24.32
	406 C	ARG A	50	41.894	-4.470	126.638	1.00 31.12
MOTA	•	ARG A	50	41.895	-3.406	126.019	1.00 24.62
MOTA	407 0			41.264		126.181	1.00 32.55
MOTA	408 N	PRO A	51		-6.921	126.751	1.00 32.40
MOTA	409 CD	PRO A	51	41.164	-5.506		1.00 30.36
ATOM	410 CA	PRO A	51	40.534	-5.506	124.31/	1.00 33.95
ATOM	411 CB	PRO A	51	40.138	-6.967		
	412 CG	PRO A	51	41.173		125.499	1.00 32.85
ATOM		PRO A	51	39.309	-4.630	125.134	1.00 31.61
ATOM	•			38.877	-4.431	126.267	1.00 29.84
ATOM	414 0	PRO A	51	38.755		124.058	1.00 29.09
ATOM	415 N	ALA A	52		3 204	124.183	1.00 29.61
MOTA	416 CA	ALA A	52	37.556	-3.294	129.105	1.00 28.67
ATOM	417 CB	ALA A	52	37.365	-2.447	122.956	1.00 20.07
	418 C	ALA A	52	36.437		124.288	1.00 32.39
ATOM		ALA A	52	36.603	-5.453	123.844	1.00 30.40
MOTA	419 0		53	35.318	-3.947	124.896	1.00 32.98
MOTA	420 N	THR A		34.192		124.997	1.00 36.61
ATOM	421 CA	THR A	53		4 514	126.166	1.00 34.22
ATOM	422 CB	THR A	53	33.253	~4.514	120.100	1.00 29.52
ATOM	423 OG1	I THR A	53	32.734	-3.193	125.970	1.00 36.45
ATOM	424 CG2		53	33.998	-4.579	127.493	1.00 30.43
	425 C	THR A	53	33.411	-4.700	123.702	1.00 38.94
MOTA		THR A	53	33.559	-3.689	123.012	1.00 32.67
MOTA			54	32.577	-5.679	123.372	1.00 39.19
ATOM	427 N	LYS A		31.792	-5 595	122.152	1.00 40.71
MOTA	428 CA	LYS A	54		-6 851	121.994	1.00 41.68
ATOM	429 CB	LYS A	54	30.933	7 034	120.597	1.00 49.42
ATOM	430 CG	LYS A	54	30.367	-7.034	120.557	1.00 51.82
ATOM	431 CD	LYS A	54	29.541	-8.310	120.508	1.00 51.02
	432 CE		54	29.075		119.087	1.00 52.94
MOTA	433 NZ		54	30.216	-8.879	118.182	1.00 54.26
MOTA			54	30.913	-4.347	122.237	1.00 39.46
MOTA	434 C	LYS A		30.719	-3.637		1.00 37.19
MOTA	435 O	LYS A	54	30.404	-4.075		1.00 36.71
ATOM	436 N	GLU A	55		-2.913		1.00 36.18
ATOM	437 CA	GLU A	55	29.554	_		1.00 42.16
ATOM	438 CB	GLU A	55	29.109	-2.877		1.00 46.04
ATOM	439 CG		55	28.223		125.476	1.00 40.04
	440 CD	_	55	27.873	-1.639		1.00 51.15
MOTA			55	27.092	-0.748	127.343	1.00 56.53
MOTA	441 OE		55	28.382	-2.482	127.72	1.00 51.67
ATOM	442 OE			30.278	-1 607	123.32:	1.00 35.45
ATOM	443 C	GLU A	55			122.66	1.00 29.11
ATOM	444 0	GLU A	55	29.721		123.776	
ATOM	445 N	GLU A	56	31.518		123.770	
ATOM	446 CA	GLU A	56	32.289	-0.269	123.497	
	447 CE		56	33.635	-0.329	124.232	1.00 30.71
ATOM			56	33.474	-0.484	125.746	1.00 35.09
MOTA	448 CC			34.787		126.479	1.00 32.29
MOTA	449 CI		56	35.645		125.986	1.00 34.54
MOTA		El GLU A				127.569	
ATOM	451 OF	E2 GLU A	56	34.951			
ATCM	452 C	GLU A		32.495		4 121.988	
	453 0	GLU A		32.341		0 121.444	
ATOM				32.827	-1.19	6 121.311	1.00 35.58
ATOM				33.039		7 119.871	1.00 35.70
ATCM	455 C			33.473			1.00 35.25
ATOM	456 CI			34.829			
ATOM	457 C	G LEU A					
ATOM	458 C	D1 LEU A	57	35.095			
ATOM	459 C	D2 LEU A	57	35.92	-2.04	1 119.433	
	460 C			31.77		7 119.15	
ATOM				31.82		7 118.20	1.00 32.72
ATOM				30.63		8 119.62	0 1.00 32.35
ATCM	462 N	DEU F					

	463 CA LEU A 58	29.353	-0.898 119.004	1.00 33.21
ATOM	463 CA LEU A 58) -1.844 119.495	1.00 35.17
ATOM	465 CG LEU A 58		-3.296 119.077	1.00 33.71
ATOM	466 CD1 LEU A 58		-4.166 119.524	1.00 36.80
ATOM	467 CD2 LEU A 58	3 28.665		1.00 36.50
ATOM	468 C LEU A 58		0.543 119.222	1.00 30.99
MOTA	469 O LEU A 58	27.915	0.985 118.700	1.00 35.50
MOTE	470 H LEU A 59		1.279 119.993	1.00 32.55
MOTA	471 CA LEU A 59			1.00 30.37
MOTA	471 CA BEU A 59		7 3.279 121.268	1.00 28.01
MOTA	473 CG LEU A 59		2.828 122.716	1:00 32.19
MOTA	474 CD1 LEU A 59		B 3.427 123.604	1.00 24.85
ATOM	475 CD2 LEU A 59		5 3.263 123.192	1.00 25.65
ATOM	476 C LEU A 59		2 3.405 118.890	1.00 31.26
MOTA	477 O LEU A 5			1.00 31.80
ATOM	478 N PHE A 60		2 2.850 118.026	1.00 29.79
ATOM	479 CA PHE A 6	0 30.72		1.00 30.24
ATOM ATOM	480 CB PHE A 6	0 32.13	1 4.055 116.637	1.00 29.99
MOTA	481 CG PHE A 6	0 32.44	3 4.691 115.299	1.00 28.88
MOTA	482 CD1 PHE A 6	0 31.70	6 5.780 114.845	1.00 25.58
ATOM		0 33.44		1.00 24.00 1.00 26.12
MOTA		0 31.95		1.00 25.12
ATOM		0 33.70		1.00 23.98
ATOM		0 32.96		
ATOM		30.53	6 2.520 115.529	1.00 30.30 1.00 32.82
ATOM	488 0 PHE A 6	30 29.81		
ATOM	489 N HIS A 6	31.19	1.363 115.543 0.418 114.431	
MOTA	450 61. 1124	31.07		
ATOM	401 00 000	32.29		
MOTA	455 00 11	33.57		_
MOTA	400 000	34.22 51 34.32		
MOTA	4,0			
MOTA	400 000			1.00 37.91
MOTA	470 1122 1120 11			1.00 38.44
MOTA	451 0 11-	61 29.87 61 29.21		1.00 35.78
MOTA	400 0	62 29.4		1.00 39.73
ATOM	455	62 28.2	78 -1.868 113.218	3 1.00 38.05
ATOM	300 011 = 1	62 27.6	82 -1.825 111.804	1 1.00 37.22
MOTA		62 28.6	31 -2.345 110.86	7 1.00 41.15
MOTA		62 27.3		3 1.00 38.27
MOTA	303 662 5555	62 28.5		1.00 39.06
MOTA MOTA	505 0 THR A	62 29.7		1.00 39.32 7 1.00 40.92
ATOM		63 27.5		
ATOM		63 27.6		
ATOM	508 CB GLU A	63 26.3	454 115 17	
ATOM	509 CG GLU A	63 26.2		
ATOM	J10 CD +	63 26.4		
ATOM	344	63 26.6		
ATOM	J	63 26.4		
MOTA	313 0 020	63 28.3 63 29.2		1 1.00 29.70
ATOM	214 0 0			4 1.00 35.85
atom		1		6 1.00 37.61
ATOM	310 0			7 1.00 43.30
MOTA	31. 03	64 27.3 64 27.3		12 1.00 53.38
ATOM	220 00	64 28.2	290 -4.269 109.08	19 1.00 52.15
MOTA	519 OD1 ASP A	64 26.2	298 -4.285 110.01	8 1.00 53.97
ATOM	520 DD2 ASP A 521 C ASP A	64 29.6	573 <i>-</i> 6.660 110.59	4 1.00 35.04
MOTA	-	64 30.	379 -7.625 110.30	3 1.00 33.60
ATOM		55 30.	144 -5.423 110.6	71 1.00 33.88
ATOM		65 31.	554 -5.153 110.43	19 1.00 32.91
ATOM	524 CA TYR A 525 CB TYR A	65 31.	793 -3.637 110.3	75 1.00 34.80
ATOM	526 CG TYR A	65 33.	247 -3.253 110.2	19 1.00 35.19
ATOM	527 CD1 TYR A	65 34.		63 1.00 28.43
ATOM	528 CE1 TYR A	65 35.	352 -3.411 109.0	24 1.00 32.52
atom				•

ATOM	529 CD2 TYR A	65				1.00 34.08
ATOM		65				1.00 29.89
ATOM		65				1.00 35.29
ATOM		65	•			1.00 29.81
ATOM	533 C TYR A	65	22		111.504	1.00 27.65
ATOM		65			111.209	1.00 27.65
ATOM		66			112.765	1.00 27.32
ATOM		66			113.858	1.00 25.82
MOTA		66	•		115.217	1.00 32.25 1.00 28.85
ATOM		66	* - · · · ·		116.338	1.00 28.85 1.00 31.48
ATOM	539 CG1 ILE A	66			115.364	1.00 31.48
ATOM	540 CD1 ILE A	66	30.0.		115.282	1.00 38.02
ATOM	J 12 U	66	•		113.736 113.844	1.00 30.25
MOTA	332 0	66	• • • • •		113.507	1.00 33.28
ATOM	343	67			113.377	1.00 35.87
MOTA	544 CA ASN A	67			113.372	1.00 33.07
MOTA	545 CB ASN A	67	•	10.242	114.421	1.00 37.34
ATOM	546 CG ASN A	67	29.807 -		115.535	1.00 35.20
MOTA	547 OD1 ASN A	67 67	28.071	-9.709	114.236	1.00 34.83
ATOM	548 ND2 ASN A	67		10.198	112.219	1.00 31.00
MOTA	549 C ASN A	67			112.306	1.00 37.26
MOTA	550 O ASN A 551 N THR A	68	32.543		111.140	1.00 30.91
MOTA		68	33.368	-9.814	109.997	1.00 31.04
ATOM	552 CA THR A 553 CB THR A	68	33.133	-8.894	108.792	1.00 34.01
MOTA	554 OG1 THR A	68	31.780	-9.037	108.352	1.00 33.26
MOTA MOTA	555 CG2 THR A	68	34.072	-9.256	107.646	1.00 30.84
ATOM	556 C THR A	68	. 34.844	-9.794	110.378	1.00 33.31
ATOM	557 O THR A	68		-10.708	110.024	1.00 32.52
ATOM	558 N LEU A	69	35.267	-8.768	111.117	1.00 30.30 1.00 28.20
ATOM	559 CA LEU A	69	36.669	-8.686	111.534	1.00 28.25
MOTA	560 CB LEU A	69	36.938	-7.409		1.00 30.18
ATOM	561 CG LEU A	69	36.859	-6.049 -4.929		1.00 31.08
ATOM	562 CD1 LEU A	69	37.154 37.868	-6.004		1.00 27.85
MOTA	563 CD2 LEU A	69	37.036	-9.902		1.00 31.65
MOTA	564 C LEU A	69		-10.519		1.00 23.95
MOTA	565 O LEU A	69 70		-10.243		1.00 30.78
MOTA	566 N MET A 567 CA MET A	70		-11.383		1.00 34.50
ATOM	567 CA MET A 568 CB MET A	70		-11.486		1.00 31.96
ATOM	569 CG MET A	70		-10.259	116.147	1.00 36.26
ATOM ATOM	570 SD MET A	70		-10.454		1.00 37.52
ATOM	571 CE MET A	70		-11.815		1.00 37.36
ATOM	572 C MET A	70		-12.685		1.00 33.33
MOTA	573 O MET A	70	37.392	-13.488	113.607	1.00 31.47 1.00 35.37
ATOM	574 N GLU A	71	35.534	-12.887	112.494	1.00 36.6
ATOM	575 CA GLU A	71	35.516	-14.098	111.681	1.00 37.3
ATOM	576 CB GLU A	71	34.245	-14.100	110.834 109.897	1.00 46.37
MOTA	577 CG GLU A	71	34.206	16 603	110.633	1.00 46.37
MOTA	578 CD GLU A	71	34.237	-17.733	109.952	1.00 48.94
MOTA	579 OE1 GLU A	71	24.333	-16.705		1.00 45.53
ATCM	580 OE2 GLU A	71	36.130	-14.169		1.00 35.96
MOTA	581 C GLU A	71	37 342	-15.228		1.00 32.99
MOTA	.582 O GLU A	71 72	37 079	-13.039		1.00 36.50
MOTA	583 N ALA A	72	38.225	-12.98	1 109.264	1.00 33.98
MOTA	584 CA ALA A 585 CB ALA A	72	38.366	-11.580		1.00 33.23
ATOM		72	39.498	-13.36	2 109.998	1.00 34.60
ATCM	· · · · · · · · · · · · · · · · ·	72	40.337	-14.09	4 109.466	1.00 31.53
ATOM	587 O ALA A 588 N GLU A	73	39.647	-12.87	3 111.224	1.00 30.87
ATOM	589 CA GLU A	73	40.847	-13.17	7 111.985	
ATOM	590 CB GLU A	73	41.004	-12.22	4 113.180	
atom atom	591 CG GLU A	73	42.234	-12.54	5 114.033	1.00 32.80
ATOM	592 CD GLU A	73	42.390	-11.63	4 115.233	
ATOM	593 OE1 GLU A		42.601	-10.41	8 115.044	
ATOM	594 OE2 GLU A	73	42.298	-12.13	8 116.372	1.00 41.21

ATOM	595	С	GLU A	73	40.906 -14.615 112.485 1.00 31.73
ATOM	596	ō	GLU A	73	41.957 -15.249 112.409 1.00 32.96
ATOM	597	N	ARG A	74	39.798 -15.145 112.992 1.00 35.85
ATOM	598	CA	ARG A	74	39.847 -16.511 113.502 1.00 43.24 38.548 -16.892 114.216 1.00 43.63
ATOM	599	CB	ARG A	74	
ATOM	600	CG	ARG A	74	
MOTA	601	CD	ARG A	74	30.500 20,00, ======
MOTA	602	NE	ARG A	74	33.334 40.071 220.200
MOTA	603	CZ		. 74	35.991 -19.870 112.403 1.00 56.36 37.273 -20.208 112.446 1.00 51.10
MOTA	604	NH1	ARG A	74	35.172 -20.517 111.586 1.00 58.75
MOTA	605	NH2	ARG A	74 74	40.125 -17.506 112.372 1.00 43.06
MOTA	606	C	ARG A	74	40.916 -18.429 112.541 1.00 42.52
MOTA	607	0	ARG A SER A	75	39.485 -17.305 111.222 1.00 43.63
MOTA	608 609	N CA	SER A	75	39.670 -18.186 110.066 1.00 44.93
MOTA	610	CB	SER A	75	38.485 -18.089 109.113 1.00 42.05
MOTA MOTA	611	OG	SER A	75	38.420 -16.799 108.532 1.00 38.43
ATOM	612	c	SER A	75	40.910 -17.797 109.282 1.00 46.44
ATOM	613	ō	SER A	75	41.339 -18.522 108.383 1.00 45.17
ATOM	614	N	GLN A	76	41.466 -16.638 109.618 1.00 46.18
ATOM	615	CA	GLN A	76	42.642 -16.116 108.936 1.00 44.73 43.868 -16.973 109.226 1.00 37.36
ATOM	616	CB	GLN A	76	45.000 10.575 105.220
ATOM	617	CG	GLN A	76	100 41 00
MOTA	618	CD	GLN A	76	1 00 27 70
ATOM	619	OE1		76	44.499 -14.537 110.655 1.00 37.78 46.669 -15.111 110.591 1.00 45.00
ATOM	620	NE2		76	42.374 -16.120 107.429 1.60 44.17
MOTA	621	С	GLN A	76 76	43.233 -16.495 106.630 1.00 40.49
ATOM	622	0	GLN A	77	41.168 -15.713 107.053 1.00 43.11
ATOM	623	N CA	SER A	77	40.784 -15.667 105.649 1.00 44.66
MOTA	624 625	CB	SER A	77	40.182 -17.004 105.220 1.00 44.56
MOTA MOTA	626	OG	SER A	77	38.974 -17.246 105.925 1.00 42.58
ATOM	627	C	SER A	77	39.747 -14.573 105.448 1.00 44.80
ATOM	628	ō	SER A	77	39.096 -14.142 106.395 1.00 45.11
ATOM	629	N	VAL A	78	39,590 -14.137 104.207 1.00 46.06
ATOM	630	CA	VAL A	78	38.632 -13.095 103.888 1.00 47.65 39.107 -12.245 102.701 1.00 49.63
ATOM	631	CB	VAL A	78	
ATOM	632	CGI		78	38.076 -11.167 102.391 1.00 51.25 40.454 -11.627 103.017 1.00 53.00
MOTA	633	CG2		78	37.275 -13.682 103.530 1.00 48.07
MOTA	634	C	VAL A	78 78	37.111 -14.301 102.480 1.00 42.31
MOTA	635	0	VAL A PRO A	79	36.282 -13.492 104.407 1.00 49.82
ATOM	636 637	N CD	PRO A	79	36.347 -12.782 105.696 1.00 50.81
MOTA	638	CA	PRO A	79	34 927 -13.998 104.186 1.00 51.31
atom atom	639	CB	PRO A	79	34.170 -13.450 105.396 1.00 53.13
ATOM	640	CG	PRO A	~9	35.244 -13.469 106.469 1.00 53.50
MOTA	641	C	PRO A	9	34.343 -13.517 102.858 1.00 52.42
ATOM	642	0	PRO A	. 9	34.670 -12.428 102.382 1.00 55.73 33.482 -14.343 102.273 1.00 49.63
ATOM	643	N	LYS A	80	
ATOM	644	CA	LYS A	80	
MOTA	645	CB	LYS A	80	31.632 -15.004 100.822 1.00 53.92 30.817 -14.808 99.545 1.00 56.27
MOTA	646	CG	LYS A	80	29.586 -15.712 99.560 1.00 56.61
MOTA	647	CD	LYS A	80	28.744 -15.579 98.298 1.00 56.04
MOTA	648	CE		80 80	29.471 -16.036 97.081 1.00 58.90
MOTA	649	NZ	LYS A		32 338 -12.607 100.874 1.00 51.10
MOTA	650	C	LYS A LYS A		31 539 -12.140 101.689 1.00 49.22
ATOM	651	Ŋ	GLY A		32.821 -11.914 99.842 1.00 51.14
ATOM	652 653				32.418 -10.537 99.592 1.00 47.07
MOTA	653 654		GLY A		32.876 -9.496 100.599 1.00 46.90
ATOM	655		GLY A		32.671 -8.301 100.397 1.00 43.90
atom atom	656		ALA A		33.504 -9.942 101.681 1.00 44.50
ATOM	657			82	33.973 -9.029 102.715 1.00 44.69
ATOM	658		ALA A	82	34.497 -9.825 103.903 1.00 44.62 35.049 -8.073 102.215 1.00 41.82
ATOM	659		ALA A	82	100 35 02
ATOM	660		ALA A	82	35.132 -6.925 102.662 1.00 35.92

127/263

MOTA	661	N	ARG A	83	35.874	-8.549 101.289	1.00 43.30
MOTA	662	CA	ARG A	83	36.959	-7.742 100.741	1.00 43.25
	663	CB	ARG A	83	37.715	-8.533 99.677	1.00 46.60
ATOM		CG	ARG A	83	38.988	-7.865 99.222	1.00 51.32
ATOM	664			83	39.636	-8.632 98.086	1.00 55.55
MOTA	665	CD	ARG A			-8.164 97.810	1.00 64.08
MOTA	666	NE	ARG A	83	40.995		1.00 63.01
ATOM	667	CZ	ARG A	83	41.330	-6.905 97.540	
MOTA	668	NH1	ARG A	83	40.403	-5.954 97.504	
MOTA	669	NH2	ARG A	83	42.599	-6.600 97.304	1.00 59.66
ATOM	670	С	ARG A	83	36.453	-6.435 100.134	1.00 44.58
ATOM	671	0	ARG A	83	37.002	-5.365 100.395	1.00 38.05
ATOM	672	N	GLU A	84	35.404	-6.528 99.323	1.00 41.82
ATOM	673	CA	GLU A	84	34.824	-5.356 98.678	1.00 41.44
ATOM	674	CB	GLU A	84	34.145	-5.765 97.367	1.00 46.27
	675	CG	GLU A	84	33.621	-7.185 97.388	1.00 52.61
MOTA	676	CD	GLU A	84	34.749	-8.198 97.308	1.00 54.12
ATOM	677	OE1	GLU A	84	34.555	-9.344 97.764	1.00 59.66
ATOM		OE2	GLU A	84	35.823	-7.850 96.769	1.00 50.30
ATOM	678			84	33.831	-4.595 99.545	1.00 37.36
MOTA	679	C	GLU A		33.692	-3.379 99.416	1.00 34.30
ATOM	680	0	GLU A	84	33.138	-5.301 100.427	1.00 36.00
ATOM	681	N	LYS A	85		-4.646 101.280	1.00 36.95
MOTA	682	CA	LYS A	85	32.154	-5.649 101.725	1.00 36.60
MOTA	683	CB	LYS A	85	31.089		1.00 40.72
MOTA	684	ÇG	LYS A	85	29.975	-5.042 102.570	
ATOM '	685	CD	LYS A	85	28.939	-6.092 102.963	1.00 46.21
ATOM	686	CE	LYS A	85	27.839	-5.487 103.827	1.00 49.06
MOTA	687	NZ	LYS A	85	26.859	-6.513 104.287	1.00 52.72
ATOM	688	С	LYS A	85	32.785	-4.008 102.513	1.00 36.48
ATOM	689	0	LYS A	85	32.353	-2.949 102.966	1.00 32.97
ATOM	690	N	TYR A	86	33.819	-4.649 103.041	1.00 33.69
ATOM	691	CA	TYR A	86	34.468	-4.169 104.250	1.00 35.23
ATOM	692	CB	TYR A	86	34.410	-5.281 105.300	1.00 33.65
ATOM	693	CG	TYR A	86	32.990	-5.665 105.680	1.00 35.09
ATOM	694	CD1		86	. 32.165	-4.765 106.351	1.00 34.06
ATOM	695	CE1		86	30.866	-5.100 106.704	1.00 34.32
ATOM	696	CD2		86	32.470	-6.923 105.365	1.00 33.17
	697	CE2		86	31.162	-7.271 105.716	1.00 33.91
MOTA	698	CZ	TYR A	86	30.369	-6.350 106.386	1.00 34.21
MOTA	699	OH	TYR A	86	29.079	-6.658 106.738	1.00 35.20
ATOM		C	TYR A	86	35.901	-3.672 104.046	1.00 36.09
ATOM	700		TYR A	86	36.552	-3.208 104.984	1.00 36.06
ATOM	701	0			36.382	-3.777 102.814	1.00 36.46
ATOM	702	N	ASN A	87	37.712	-3.313 102.441	1.00 32.71
ATOM	703	CA	ASN A	87	37.768	-1.791 102.576	1.00 36.26
MOTA	704	CB	ASN A	87	38.989	-1.199 101.926	1.00 37.25
ATOM	705	CG	ASN A	87		-1.518 100.784	1.00 36.29
ATOM	706	OD1		87	39.305	-0.320 102.640	1.00 45.25
ATOM	707		ASN A	87	39.675	-3.956 103.217	1.00 34.73
ATOM	708	C	ASN A	87	38.855		1.00 33.23
ATOM	709	0	ASN A	87	39.868		1.00 33.23
ATOM	710	N	ILE A	88	38.687		
ATOM	711	CA	ILE A	88	39.676		1.00 33.65
MOTA	712	CB	ILE A	88	39.030		1.00 38.66
MOTA	713	CG2	ILE A	88	40.021		1.00 41.31
ATOM	714	CG1		88	38.536	-5.707 106.461	1.00 40.45
ATOM	715	CD1	ILE A	88	39.641	-4.953 107.124	1.00 42.25
ATOM	716	С	ILE A	88	40.251	-7.090 103.318	1.00 37.36
ATOM	717	ō	ILE A	88	39.555	-7.587 102.431	1.00 35.47
ATOM	718	Ŋ	GLY A	89	41.517	-7.446 103.520	1.00 31.52
	719	CA	GLY A	89	42.124		1.00 33.53
MOTA		CA	GLY A	89	43.134	•	1.00 34.50
MOTA	720		GLY A	89	43.951		1.00 32.81
ATOM	721	0		90	43.071		1.00 31.39
ATOM	722	N	GLY A	90	44.005	•	1.00 23.90
MOTA	723	CA	GLY A	90	45.340		1.00 28.78
ATOM	724	C	GLY A		45.563		1.00 21.71
MOTA	725	0	GLY A		46.221		1.00 28.26
MOTA	726	N	TYR A	91	40.221	-5.155 100.507	

- mon	727 CA TYR A 91	47.539 -4.850 100.918 1.00 27.34
ATOM ATOM	728 CB TYR A 91	48.477 -4.365 99.805 1.00 22.62
ATOM	729 CG TYR A 91	48.066 -3.039 99.194 1.00 24.28 48.374 -1 829 99.822 1.00 21.55
ATOM	730 CD1 TYR A 91	40.374
MOTA	731 CEL TYR A 91	71.370
MOTA	732 CD2 TYR A 91	27.522
MOTA	733 CE2 TYR A 91	46.931 -1.786 97.447 1.00 29.92 47.250 -0.597 98.086 1.00 29.04
MOTA	734 CZ TYR A 91	46.861 0.593 97.516 1.00 29.51
MOTA	735 OH TYR A 91	47.452 -3.777 101.998 1.00 27.52
MOTA	736 C TYR A 91 737 O TYR A 91	48.314 -3.689 102.869 1.00 27.20
MOTA	737 U 11K A 31 .	46.402 -2.971 101.938 1.00 26.75
ATOM ATOM	739 CA GLU A 92	46.232 -1.879 102.882 1.00 28.38
ATOM	740 CB GLU A 92	45.234 -0.881 102.310 1.00 28.57 45.232 0.471 102.982 1.00 36.94
ATOM	741 CG GLU A 92	45.252
ATOM	742 CD GLU A 92	44.170
MOTA	743 OE1 GLU A 92	42.999 1.293 102.794 1.00 31.22 44.527 2.209 101.516 1.00 40.54
ATOM	744 OE2 GLU A 92	45.770 -2.343 104.259 1.00 29.20
MOTA	745 C GLU A 92	46.389 -2.015 105.268 1.00 21.86
MOTA	746 O GLUA 92 747 N ASNA 93	44.687 -3.117 104.286 1.00 26.51
MOTA	748 CA ASN A 93	44.109 -3.613 105.527 1.00 24.02
MOTA MOTA	749 CE ASN A 93	42.727 -2.988 105.690 1.00 24.51
ATOM	750 CG ASN A 93	42.738 -1.488 105.405 1.00 28.61 13.428 -0.727 106.079 1.00 25.30
ATOM	751 OD1 ASN A 93	43.428
ATOM	752 ND2 ASN A 93	41.00
ATOM	753 C ASN A 93	43.999 -5.132 105.407 1.00 24.79 42.905 -5.680 105.291 1.00 21.89
MOTA	754 O ASN A 93 755 N PRO A 94	45.142 -5.828 105.429 1.00 24.60
MOTA	755 N PRO A 94 756 CD PRO A 94	46.493 -5.246 105.540 1.00 22.93
MOTA	757 CA PRO A 94	45.241 -7.285 105.312 1.00 27.23
MOTA MOTA	758 CB PRO A 94	46.730 -7.488 105.093 1.00 25.46
ATOM	759 CG PRO A 94	47 299 -6.431 106.046 1.00 26.20 44 743 -8.112 106.489 1.00 31.04
ATOM	760 C PRO A 94	44.740
MOTA	761 C PRO A 94	44.411 -7.589 107.558 1.00 29.10 44.696 -9.422 106.266 1.00 28.27
MOTA	762 N VAL A 95	44 299 -10.367 107.291 1.00 28.82
MOTA	, 05	43.938 -11.737 106.677 1.00 30.75
MOTA	764 CE VAL A 95 765 CG1 VAL A 95	43.745 -12.766 107.776 1.00 33.60
MOTA MOTA	766 CG2 VAL A 95	42.679 -11.611 105.849 1.00 24.87
ATOM	767 C VAL A 95	45.503 -10.549 108.204 1.00 29.98 46.637 -10.649 107.729 1.00 31.36
ATOM	768 O VAL A 95	40.037 -10.043 200 500 100 20 30
MOTA	769 N SER A 96	45.264 -10.572 109.510 1.00 29.36 46.335 -10.766 110.485 1.00 32.56
MOTA	770 CA SER A 96	47.325 -9.600 110.454 1.00 34.15
ATOM	,,,,	46 758 -8.448 111.051 1.00 28.33
MOTA	772 CG SER A 96 773 C SER A 96	45.681 -10.804 111.854 1.00 32.10
MOTA MOTA	774 G SER A 96	44 458 -10.839 111.950 1.00 37.91
ATOM	775 N. TYR A 97	46.484 -10.795 112.913 1.00 32.57 45.914 -10.801 114.248 1.00 34.95
ATOM	776 CA TYR A 97	45.914 -10.801 114.248 1.00 34.95 46.685 -11.735 115.182 1.00 35.47
MOTA	777 CB TYR A 97	46.492 -13.187 114.817 1.00 40.65
MCTA	778 CG TYR A 97	47.319 -13.812 113.882 1.00 40.63
ATOM	175 652 555	47 083 -15.121 113.475 1.00 42.16
MOTA	780 CEL TYR A 97 781 CD2 TYR A 97	45.421 -13.910 115.338 1.00 38.82
ATOM	782 CE2 TYR A 97	45.175 -15.219 114.936 1.00 42.82
ATOM ATOM	783 CE TYR A 97	46.010 -15.816 114.005 1.00 42.56 45.772 -17.105 113.601 1.00 46.03
ATOM	784 CH TYR A 97	
ATOM	785 C TYR A 97	70.000
ATCM	786 0 TYR A 97	45.601 -9.195 115.998 1.00 39.06 46.115 -8.418 113.948 1.00 31.96
ATCM	787 N ALA A 98	46 048 -7 024 114.341 1.00 30.43
ATOM	700 011	47.105 -6.211 113.600 1.00 29.64
ATOM	789 CB ALA A 98 790 C ALA A 98	44.658 -6.533 113.962 1.00 30.35
ATOM	791 O ALA A 98	44.099 -5.655 114.612 1.00 31.82
ATCM	792 N MET A 99	44.094 -7.130 112.915 1.00 30.40
ATOM	· · · · · · · · · · · · · · · · · · ·	

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-6.730 112.420 1.00 27.54 42.788 MET A 99 793 CA MOTA 1.00 30.55 42.370 -7.620 111.238 MET A 99 ATOM 794 CB -9.071 111.565 1.00 31.59 99 42.052 795 CG MET A MOTA 41.902 -10.077 110.053 1.00 30.13 MET A 99 796 SD **ATOM** 1.00 28.02 -9.086 109.085 40.770 99 MET A MOTA 797 CE 1.00 28.02 41.703 -6.696 113.490 99 MET A 798 С ATOM --5.842 113.446 1.00 24.53 40.818 MET A 99 799 0 ATOM 1.00 26.07 41.752 -7.614 114.449 PHE A 100 800 N MOTA 1.00 30.47 **-7.583** 115.516 40.759 801 CA PHE A 100 ATOM 1.00 30.29 39.738 -8.718 115.404 -PHE A 100 MOTA 802 CB 1.00 29.35 -8.657 116.475 PHE A 100 38.693 803 CG ATOM 1.00 27.01 1.00 30.68 -7.662 116.455 -9.506 117.575 -7.507 117.519 CD1 PHE A. 100 37.722 804 MOTA 38.756 CD2 PHE A 100 805 MOTA 1.00 31.41 36.834 37.873 CE1 PHE A 100 806 MOTA -9.356 118.644 1.00 28.39 CE2 PHE A 100 807 MOTA 1.00 24.06 36.913 -8.355 118.618 PHE A 100 808 CZ MOTA -7.616 116.922 1.00 29.67 PHE A 100 41.345 809 MOTA 41.028 -6.751 117.740 1.00 29.67 PHE A 100 810 0 ATOM 1.00 31.30 -8.610 117.222 42.181 THR A 101 811 N MOTA 1.00 31.37 -8.701 118.562 THR A 101 42.770 MOTA 812 CA 43.610 -9.977 118.732 1.00 31.63 CB THR A 101 813 MOTA 1.00 31.64 42.777 -11.119 118.532 OG1 THR A 101 814 ATOM 1.00 27.38 1.00 31.66 1.00 30.71 44.197 -10.045 120.137 CG2 THR A 101 815 ATOM -7.493 118.884 43.647 THR A 101 816 C MOTA -6.875 119.942 43.502 THR A 101 817 0 ATOM -7.166 117.976 1.00 27.40 44.562 **GLY A 102** 818 N ATOM 45.430 -6.018 118.193 1.00 27.19 GLY A 102 819 CA MOTA -4.728 118.266 1.00 27.26 GLY A 102 44.631 820 MOTA 1.00 27.68 -3.940 119.201 44.785 **GLY A 102** 821 0 ATOM -4.515 117.279 1.00 30.52 43.767 SER A 103 822 N MOTA -3.314 117.216 1.00 31.91 42.941 SER A 103 823 CA MOTA -3.334 115.949 1.00 34.63 42.085 SER A 103 CB 824 MOTA 1.00 35.94 -3.265 114.791 42.896 **SER A 103** 825 OG MOTA 1.00 32.44 1.00 25.78 -3.163 118.441 42.046 **SER A 103** 826 C ATOM -2.065 118.984 -4.270 118.871 41.891 827 SER A 103 0 MOTA 1.00 30.47 41.455 40.584 SER A 104 828 N MOTA -4.251 120.038 1.00 30.22 SER A 104 829 CA MOTA 1.00 23.88 -5.633 120.265 39.978 SER A 104 830 CB MOTA -5.595 121.358 1.00 36.91 39.078 SER A 104 831 OG MOTA 1.00 28.13 -3.841 121.282 41.367 **SER A 104** 832 С ATOM 1.00 25.16 -3.098 122.130 40.872 SER A 104 833 0 MOTA -4.336 121.386 1.00 29.39 42.594 LEU A 105 MOTA 834 N 1.00 29.52 43.445 -4.034 122.530 835 LEU A 105 CA MOTA -4.922 122.471 1.00 32.90 44.684 **LEU A 105** 836 CB ATOM -5.176 123.754 1.00 40.34 LEU A 105 45.461 837 CG **ATOM** 1.00 35.95 -5.723 124.828 44.520 CD1 LEU A 105 838 ATOM -6.178 123.462 1.00 40.23 46.582 CD2 LEU A 105 839 MOTA -2.552 122.511 1.00 32.09 LEU A 105 43.834 С 840 MOTA 1.00 30.38 -1.894 123.554 43.896 841 0 LEU A 105 ATOM -2.029 121.314 1.00 30.26 ALA A 106 44.081 842 N ATOM 1.00 28.31 -0.626 121.151 44.448 ALA A 106 CA 843 MOTA 1.00 23.88 -0.386 119.738 44.958 ALA A 106 CB 844 MOTA 0.268 121.434 1.00 26.04 43.243 ALA A 106 845 C ATOM 1.376 121.952 1.00 20.63 ALA A 106 43.380 846 0 MOTA 1.00 26.86 -0.224 121.099 42.058 THR A 107 847 N ATOM 1.00 25.04 0.542 121.322 40.841 THR A 107 S48 CA MOTA 1.00 26.50 0.007 120.443 THR A 107 39.706 CB ATOM 349 1.00 24.62 0.092 119.069 0.824 120.629 40.111 OG1 THR A 107 850 ATOM 1.00 19.80 38.439 CG2 THR A 107 851 MOTA 0.503 122.798 1.00 27.90 40.450 THR A 107 352 С ATOM 1.00 29.04 1.515 123.361 40.039 THR A 107 353 Э ATOM -0.662 123.422 1.00 24.01 GLY A 108 40.585 854 N MOTA 1.00 24.86 -0.767 124.832 40.256 GLY A 108 ATOM 855 CA 1.00 23.86 0.155 125.603 41.181 GLY A 108 856 C ATOM 0.790 126.572 1.00 26.97 40.771 **GLY A 108** 0 857 ATOM 0.236 125.158 1.00 23.07 42.434 **SER A 109** 858 N ATCM

ATOM	859 CA SER A 109	43.421 1.090 125.807 1.00 20.96
ATOM	860 CB SER A 109	44.795 0.910 125.160 1.00 24.84
ATOM	861 OG SER A 109	45.294 -0.393 125.402 1.00 25.84
ATOM	862 C SER A 109	43.008 2.552 125.759 1.00 21.13
ATOM	863 O SER A 109	43.323 3.312 126.672 1.00 23.17
ATOM	864 N THR A 110	42.311 2.949 124.698 1.00 20.83
ATOM	865 CA THR A 110	41.841 4.327 124.583 1.00 21.84
ATOM	866 CB THR A 110	41.332 4.648 123.161 1.00 24.33
ATOM	867 OG1 THR A 110	42.452 4.769 122.276 1.00 25.38
	868 CG2 THR A 110	40.543 5.954 123.144 1.00 21.18
ATOM	869 C THR A 110	40.725 4.561 125.600 1.00 28.52
ATOM	870 O THR A 110	40.632 5.637 126.197 1.00 28.27
ATOM	871 N VAL A 111	39.882 3.558 125.809 1.00 26.88
MOTA MOTA	872 CA VAL A 111	38.811 3.706 126.793 1.00 30.04
ATOM	873 CB VAL A 111	37.820 2.519 126.742 1.00 29.94
ATOM	874 CG1 VAL A 111	36.737 2.693 127.802 1.00 27.07
ATOM	875 CG2 VAL A 111	37.193 2.431 125.355 1.00 25.26
ATOM	876 C VAL A 111	39.440 3.797 128.187 1.00 28.10
ATOM	877 O VAL A 111	38.968 4.539 129.039 1.00 26.06
ATOM	878 N GLN A 112	40.521 3.056 128.415 1.00 23.92
MOTA	879 CA GLN A 112	41.188 3.097 129.711 1.00 30.27 42.268 2.020 129.804 1.00 28.61
ATOM	880 CB GLN A 112	42.200
ATOM	881 CG GLN A 112	41.11
ATOM	882 CD GLN A 112	42.883 -0.397 129.564 1.00 28.60 43.344 -0.740 130.653 1.00 29.68
ATOM	883 OE1 GLN A 112	
ATOM	884 NE2 GLN A 112	43.333
ATOM	885 C GLN A 112	41.00
ATOM	886 O GLN A 112	31.752
ATOM	887 N ALA A 113	12.130
MOTA	888 CA ALA A 113	45.005
MOTA	889 CB ALA A 113	45.055
ATOM	890 C ALA A 113	42.003
ATOM	891 O ALA A 113	12.232
MOTA	892 N ILE A 114	40.024
MOTA	893 CA ILE A 114	39.728 8.063 129.145 1.00 27.05 38.554 7.887 128.156 1.00 26.93
MOTA	894 CB ILE A 114	37.387 8.770 128.576 1.00 25.86
MOTA	895 CG2 ILE A 114	39.008 8.259 126.739 1.00 28.38
MOTA	896 CG1 ILE A 114	37 938 8 105 125 669 1.00 28 64
MOTA	897 CD1 ILE A 114	39 239 7.823 130.578 1.00 31.36
ATOM	898 C ILE A 114 899 O ILE A 114	39 898 8 770 131.291 1.00 24.56
MOTA		39 210 6.563 131.005 1.00 31.17
ATOM		38.750 6.257 132.358 1.00 32.12
ATOM		38.729 4.744 132.607 1.00 32.15
ATOM	902 CB GLU A 115 903 CG GLU A 115	37 904 3 947 131.598 1.00 32.84
ATOM	904 CD GLU A 115	37.875 2.459 131.912 1.00 34.12
HOTA	905 OE1 GLU A 115	38_910 1.91C 132.345 1.00 30.36
ATOM	906 OE2 GLU A 115	36.826 1.827 131.699 1.00 31.36
ATOM	907 C GLU A 115	39.675 6.932 133.357 1.00 31.65
ATOM ATOM	908 O GLU A 115	39.224 7.446 134.383 1.00 29.25
ATOM	909 N GLU A 116	40.970 6.933 133.053 1.00 31.50
ATOM	910 CA GLU A 116	41.942 7.564 133.934 1.00 32.34
ATOM	911 CB GLU A 116	43.367 7.285 133.457 1.00 33.29 43.805 5.842 133.633 1.00 32.29
ATOM	.912 CG GLU A 116	43.003
ATOM	913 CD GLU A 116	43.701
ATOM	914 OE1 GLU A 116	44.323
ATOM	915 OE2 GLU A 116	42.555
ATOM	916 C GLU A 116	41.702
ATOM	917 O GLU A 116	41.00
ATOM	918 N PHE A 117	31.34
ATOM	919 CA PHE A 117	41.000 11.000
ATOM	920 CB PHE A 117	40.000 11.000
ATOM	921 CG PHE A 117	90.07
ATOM	922 CD1 PHE A 117	10.002 12.002 1 00 30 00
ATOM	923 CD2 PHE A 117	38.675 13.123 131.225 1.00 38.30 40.372 15.299 131.466 1.00 30.65
ATOM	924 CE1 PHE A 117	40.312 13.433 100000

MOTA	925	CE2	PHE A	117	38.153	14.412	131.190	1.00 36.50
ATOM	926	CZ	PHE A	117	39.003	15.501	131.310	1.00 35.41
	927	c	PHE A		39.908	11.401	133.811	1.00 32.78
MOTA								
MOTA	928	0		117	39.966	12.377	134.566	1.00 29.82
MOTA	929	N	LEU A	118	38.874	10.568	133.771	1.00 28.61
ATOM	930	CA	LEU A	118	37.720	10.751	134.632	1.00 32.00
MOTA	931	CB	LEU A	118	36.621	9.748	134.263	1.00 29.19
	932		LEU A		36.098	9.830	132.820	1.00 34.47
MOTA		CG					132.622	1.00 32.69
ATOM	933				34.962	8.836		
ATOM	934	CD2		118	35.612		132.522	1.00 32.24
MOTA	935	С	LEU A	118	38.123	10.590	136.094	1.00 31.17
ATOM	936	0	LEU A	118	37.576	11.260	136.964	1.00 28.32
ATOM	937	N	LYS A	119	39.083	9.707	136.363	1.00 27.23
	938	CA		119	39.531	9.497	137.733	1.00 30.95
ATOM				119	40.203		137.884	1.00 26.35
ATOM	939	CB					137.540	
ATOM	940	CG	LYS A		39.293			
ATOM	941	CD	LYS A		39.895	5.624	137.986	1.00 33.31
MOTA	942	CE	LYS A	119	41.280	5.385	137.411	1.00 33.47
MOTA	943	NZ	LYS A	119	41.874	4.102	137.904	1.00 33.40
ATOM	944	С	LYS A	119	40.493	10.594	138.173	1.00 32.65
ATOM	945	ŏ	LYS A		41.050	10.548	139.270	1.00 28.83
		N	GLY A		40.689	11.583	137.308	1.00 33.77
ATOM	946				41.571	12.677	137.652	1.00 33.84
MOTA	947	CA	GLY A					
ATOM	948	С	GLY A		43.035	12.448	137.340	1.00 34.27
ATOM	949	0	GLY A	120	43.880	13.227	137.776	1.00 36.80
ATOM	950	N	ASN A	121	43.347	11.384	136.606	1.00 30.77
ATOM	951	CA	ASN A	121	44.731	11.122	136.244	1.00 31.73
ATOM	952	CB	ASN A	121	45.089	9.646	136.437	1.00 29.34
ATOM	953	CG	ASN A		44.856	9.170	137.851	1.00 35.83
	954	OD1			45.190	9.861	138.816	1.00 32.74
ATOM					44.304	7.970	137.986	1.00 33.20
MOTA	955	ND2	ASN A					
ATOM	956	С	ASN A		44.954		134.790	
ATOM	957	0	ASN A		44.031	11.952	134.110	1.00 34.69
ATOM	958	N	VAL A	122	46.186	11:334	134.322	1.00 32.74
ATOM	959	CA	VAL A	122	46.540	11.653	132.946	1.00 33.59
ATOM	960	CB	VAL A	122	47.571	12.790	132.882	1.00 36.05
ATOM	961	CG1			47.884	13.121	131.438	1.00 37.58
ATOM	962	CG2	VAL A		47.029	14.021	133.602	1.00 37.19
	963		VAL A		47.147	10.397	132.352	1.00 34.47
ATOM		C				9.801	132.939	1.00 31.28
ATOM	964	0	VAL A		48.053		131.196	
MOTA	965	N	ALA A		46.646	9.989		1.00 28.06
MOTA	966	CA	ALA A		47.142	8.784	130.563	1.00 30.73
ATOM	967	CB	ALA A	123	46.133	7.666		1.00 32.69
MOTA	968	С	ALA A	123	47.466	8.969	129.088	1.00 30.55
MOTA	969	0	ALA A	123	46.909	9.830	128.406	1.00 32.89
ATOM	970	N	PHE A		48.380	8.136	128.613	1.00 27.53
	971	CA	PHE A		48.807	8.157		1.00 26.56
ATOM					50.261		127.157	1.00 25.32
ATOM	972	CB	PHE A				125.793	1.00 27.84
MOTA	973	CG	PHE A		50.903			
MOTA	974	CD1			50.179	8.785	124.629	1.00 24.77
ATOM	975	CD2	PHE A	124	52.266		125.686	1.00 21.79
MOTA	976	CEl	PHE A	124	50.802		123.385	1.00 29.19
ATOM	977	CE2	PHE A		52.894	8.235	124.449	1.00 27.38
ATOM	978	cz	PHE A		52.164	8.478	123.296	1.00 20.91
	979	C	PHE A		48.671		126.675	1.00 21.13
MOTA					49.181		127.260	1.00 25.38
atom	980	0	PHE A	124			125.580	1.00 18.87
MOTA	981	11	ASN A	125	47.933			1.00 10.07
ATOM	982	CY	ASN A	125	47.750	5.342		1.00 25.05
ATOM	983	CB	ASN A	125	46.271	4.982	124.756	1.00 22.99
ATOM	984	CG	ASN A		46.073	3.784	123.856	1.00 24.08
ATOM	985	OD1			46.916	2.888	123.822	1.00 20.46
ATOM	986	ND2	ASN A	125	44.960	3.748	123.138	1.00 16.10
	987	C	ASN A		48.380	5.410		1.00 23.43
ATOM			ASN A		47.718	5 749	122.542	1.00 23.48
MOTA	988	0			49.680	5.103		1.00 24.55
atcm	989	И	PRO A	126			124.519	1.00 22.87
ATOM	990	CD	PRO A	140	50.589	4.750	16-2-713	1.00 22.07

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	991 CA PRO A 126 992 CB PEO A 126 993 CG PRO A 126 994 C PRO A 126 995 O PRO A 126 996 N ALA A 127 997 CA ALA A 127 998 CB ALA A 127 1000 O ALA A 127 1000 O ALA A 127 1001 N GLY A 128 1002 CA GLY A 128 1003 C GLY A 128 1004 O GLY A 128 1005 N GLY A 129 1006 CA GLY A 129 1006 CA GLY A 129 1007 C GLY A 129 1008 O GLY A 129 1009 N MET A 130 1011 CB MET A 130 1012 CG MET A 130 1013 SD MET A 130 1014 CE MET A 130 1015 C MET A 130 1016 O MET A 130 1017 N HIS A 131 1018 CA HIS A 131 1019 CB HIS A 131 1020 CG HIS A 131 1020 CG HIS A 131 1021 CD2 HIS A 131 1022 ND1 HIS A 131 1023 CE1 HIS A 131 1024 NE2 HIS A 131 1025 C HIS A 131 1026 O HIS A 131 1027 N HIS A 131 1027 N HIS A 131 1028 CA HIS A 131 1029 CB HIS A 132 1030 CG HIS A 132 1031 CD2 HIS A 132 1032 ND1 HIS A 132 1033 CE1 HIS A 132 1034 NE2 HIS A 132 1035 C HIS A 132	50.413 51.829 51.564 49.867 50.173 49.058 48.493 48.176 46.806 45.461 45.732 46.806 45.461 45.732 46.806 44.963 44.965 44.965 44.198 42.580 41.425 42.580 41.425 43.729 44.496 44.248 45.5280 41.4260 44.248 45.5280 41.426 45.5280 41.4278 43.600 44.496 44.496 44.496 44.496 44.496 44.048 45.797 47.797 47.698 47.600 47.	4.751 122.594 1 3.849 123.798 1 4.224 121.058 1 4.436 119.893 1 3.232 121.423 1 2.306 120.444 1 0.967 121.118 1 2.864 119.778 1 2.360 118.745 1 3.906 120.367 1 4.494 119.809 1 5.521 118.725 1 5.695 118.291 1 6.199 118.283 7 7.205 117.243 6 6.55 115.847 7 7.293 114.857 1 5.470 115.765 1 4.825 114.481 1 3.361 114.744 1 3.361 114.744 1 2.661 115.563 1 0.913 115.989 1 0.30 116.936 1 5.617 113.869 1 5.199 113.901 1 6.766 113.294 7 7.687 112.775 1 9 125 112.891	.00 22.39 .00 18.20 .00 25.43 .00 23.18 .00 20.12 .00 23.27 .00 23.89 .00 24.82 .00 24.76 .00 28.99 .00 21.43 .00 23.55 .00 23.55 .00 23.55 .00 23.55 .00 24.99 1.00 25.11 1.00 24.99 1.00 25.11 1.00 26.57 1.00 26.57 1.00 27.76 1.00 27.76 1.00 20.66 1.00 20.99 1.00 20.66 1.00 20.99 1.00 21.01 1.00 24.79 1.00 24.79 1.00 25.12 1.00 27.76 1.00 27.76 1.00 24.79 1.00 23.32 1.00 24.79
MOTA	1029 CB HIS A 132	_	6.689 108.072	1.00 24.79
		44.496	6.574 108.144	1.00 21.72
	1032 ND1 HIS A 132			1.00 15.41
				1.00 15.27
			5.386 109.208	1.00 23.38
ATOM	1036 O HIS A 132	38.947	5.615 108.304 4.388 110.070	1 00 24.70
MOTA	1037 N ALA A 133	39.587 38.453	3.471 109.953	1 00 23.77
ATOM	1038 CA ALA A 133 1039 CB ALA A 133	38.515	2.417 111.053	1.00 27.49
ATOM ATOM	1040 C ALA A 133	.37.093	4.145 109.966	1.00 23.02 1.00 25.98
MOTA	1041 O ALA A 133	36.878 36.179	5.117 110.691 3.633 109.148	1.00 18.90
ATOM	1042 N PHE A 134 1043 CA PHE A 134	34.831	4.173 109.103	1.00 23.73
MOTA MOTA	1044 CB PHE A 134	34.317	4.296 107.663 5.225 106.801	1.00 24.29 1.00 26.67
ATOM	1045 CG PHE A 134	35.119 36.025	4.724 105.867	1.00 28.69
ATOM	1046 CD1 PHE A 134 1047 CD2 PHE A 134	34.975	6.605 106.921	1.00 32-49
ATOM ATOM	1048 CE1 PHE A 134	36.775	5.582 105.063 7.479 106.119	1.00 28.65 1.00 27.86
ATOM	1049 CE2 PHE A 134	35.724 36.623	6.967 105.188	1.00 23.93
MOTA	1050 CZ PHE A 134 1051 C PHE A 134	33.894	3.260 109.884	1.00 25.91
ATOM ATOM	1052 O PHE A 134	34.270	2.172 110.319 3.728 110.062	1.00 27.20 1.00 29.14
MOTA	1053 N LYS A 135	32.670 31.638	2.984 110.765	1.00 35.26
ATOM	1054 CA LYS A 135 1055 CB LYS A 135	30.294	3.628 110.429	1.00 35.86
ATOM ATOM	TYC 3 135	29.072	2.779 110.667	1.00 46.26

133/263

	1057	~~	TVC		27.834	3.542	110.211	1.00 47.72
ATOM	1057	CD	LYS A		26.610		110.169	1.00 53.65
MOTA	1058	CE	LYS A				109.167	1.00 53.27
MOTA	1059	NZ	LYS A		26.788		110.414	1.00 35.62
ATOM	1060	С	LYS A		31.617			1.00 33.82
MOTA	1061	0	LYS A		31.609		111.301	
ATOM-	1062	N	SER A		31.629		109.122	1.00 35.97
MOTA	1063	CA	SER A		31.555		108.684	1.00 38.99
ATOM	1064	CB	SER A	136	30.172		108.083	1.00 38.87
ATOM	1065	OG	SER A	136	29.146		108.975	1.00 43.54
ATCM	1066		-SER A		32.608	-0.616	107.660	1.00 37.84
MOTA	1067	ō	SER A		32.350	-1.491	106.828	1.00 36.33
ATOM	1068	N	ARG A		33.788	-0.008	107.705	1.00 33.23
ATOM	1069	CA	ARG A		34.797	-0.368	106.724	1.00 30.89
	1070	CB	ARG A		34.456		105.385	1.00 33.88
MOTA	1070	CG	ARG A		35.009		104.201	1.00 44.41
MOTA	1072	CD	ARG A		34.809	0.261	102.880	1.00 46.27
ATOM	1072	NE	ARG A		35.091		101.768	1.00 48.87
MOTA			ARG A		35.352		100.526	1.00 48.64
MOTA	1074	CZ	ARG A		35.372		100.220	1.00 51.82
ATOM	1075				35.572	-1.169	99.589	1.00 49.01
ATOM	1076	NH2	ARG A		36.209		107.143	1.00 31.84
MOTA	1077	C	ARG A			1.079	107.742	1.00 30.36
ATOM	1078	0	ARG A		36:428		106.828	1.00 30.06
ATOM	1079	N		138	37.166			1.00 30.00
MOTA	1080	CA	ALA A		38.560		107.158	1.00 32.24
MOTA	1081	CB	ALA A		39.367	-1.864	107.048	1.00 31.23
ATOM	1082	С	ALA A		39.095		106.187	
MOTA	1083	0	ALA A		38.612		105.063	1.00 26.11
MOTA	1084	N		139	40.099		106.615	1.00 29.54
MOTA	1085	CA		139	40.673		105.767	1.00 26.99
ATOM	1086	CB	ASN A	139	39.685	3.415	105.662	1.00 24.10
MOTA	1087	CG		139	40.209		104.811	1.00 28.02
ATOM	1088	OD1	ASN A	139	40.729		103.727	1.00 26.90
ATOM	1089	ND2		139	40.050		105.293	1.00 23.55
MOTA	1090	С	ASN A	139	42.027		106.285	1.00 30.17
ATOM	1091	0	ASN A	139	42.245	2.827	107.497	1.00 27.55
MOTA	1092	N	GLY A	140	42.944		105.354	1.00 31.82
ATOM	1093	CA	GLY A	140	44.277		105.702	1.00 24.90
MOTA	1094	С	GLY A	140	45.000		106.816	1.00 27.79
MOTA	1095	0	GLY A	140	45.560	3.339		1.00 23.85
ATOM	1096	N	PHE A	141	45.006	1.365		1.00 24.35
MOTA	1097	CA	PHE A	141	45.679	0.538		1.00 24.53
MOTA	1098	αэ	PHE A	141	47.031		108.197	1.00 26.40
MOTA	1099	CG	PHE A	141	47.997		107.062	1.00 30.31
ATOM	1100	CD1			49.145	2.125		1.00 31.60
MOTA	1101	CD2	PHE A	141	47.781	0.811	105.802	1.00 29.44
ATOM	1102	CE1	PHE A	141	50.066	2.331	106.243	1.00 30.44
MOTA	1103	CE2	PHE A	141	48.694	1.008	104.770	1.00 27.91
ATOM	1104	CZ	PHE A		49.840		104.991	1.00 29.38
ATOM	1105	Ċ	PHE A		44.846		109.056	1.00 23.53
ATOM	1106	ō	PHE A		45.194		109.941	1.00 23.09
MOTA	1107	N	CYS A	142	43.760	1.143	109.159	1.00 22.86
ATOM	1108	CA	CYS A	142	42.925		110.356	1.00 23.87
MOTA	1109	CB	CYS A		42.472	2.516	110.723	1.00 22.51
MOTA	1110	SG	CYS A		43.828	3.683	111.072	1.00 27.62
MOTA	1111	c	CYS A		41.694	0.205	110.233	1.00 24.20
ATOM	1112	ō	CYS A	142	40.932		109.272	1.00 24.12
ATOM	1113	N	TYR A		41.498		111.219	1.00 23.84
	1114	CA	TYR A		40.335		111.236	1.00 26.07
MOTA	1115	CB	TYR A		40.728	-2.958	111.680	1.00 27.89
MOTA		CG	TYR A	143	41.829	-3.582	110.855	1.00 27.30
ATOM	1116				43.169	-3.329	111.137	1.00 25.76
ATOM	1117	CD1			44.185		110.346	1.00 25.77
ATOM	1118	CEI			41.526	-4.394	109.762	1.00 25.87
ATOM	1119	CD2			42.531	-4 941	108.967	1.00 23.10
ATOM	1120	CE2	TYR A	143	43.854	-4.679	109.262	1.00 22.93
ATOM	1121	CZ	TYR A	143	44.849	-5.21	7 108.476	1.00 20.64
ATOM	1122	ЭН	TIV V				•	

		с т	YR A 143		39.281	-0.991	112.193	1.00 24.56
					38.085	-1 030	111.905	1.00 24.88
MOTA	1124	OT	YR A 143		30	-1.050	117 771	1.00 23.77
MOTA	1125	N I	LE A 144		39.734	-0.4/1	113.331	
			LE A 144		38.833	0.102	114.335	1.00 27.11
ATOM	1126				38.871	-0 729	115.643	1.00 24.56
MOTA	1127		LE A 144		38.0/1			1.00 23.47
ATOM	1128	CG2 I	LE A 144		37.941		116.690	1.00 25.37
			LE A 144		38.430	-2.169	115.346	1.00 28.51
MOTA	1129				38.535	-3.113	116.539	1.00 28.70
ATOM	1130		LE A 144			1.550		1.00 24.15
MOTA	1131	C 1	LE A 144		39.248			1.00 24.42
ATOM	1132	0 1	LE A 144		40.428	1.843	114.800	
			ASN A 145		38.277	2.453	114.669	1.00 22.04
ATOM .	1133				38.555	3.866	114.920	1.00 21.31
ATOM	1134		ASN A 145		30.555		114.133	1.00 18.87
ATOM	1135	CB 2	ASN A 145		37.559	4.732		1.00 22.21
	1136	CG 7	ASN A 145		37.956		114.091	
ATOM			ASN A 145		38.223	6.823	115.124	1.00 22.47
ATOM	1137				37.978	6 776	112.892	1.00 23.78
ATOM	1138		ASN A 145		37.370	4.141	116.418	1.00 22.63
ATCM	1139	_ C _ Z	ASN A 145		38.417	4,141	110.410	1.00 22.45
	1140	0 2	ASN A 145		37.338	4.535	116.880	
ATOM			ASN A 146		39.495	3.941	117.178	1.00 16.63
MOTA	1141				39.423	4 160	118.628	1.00 23.57
MOTA	1142		ASN A 146			3 679	119.320	1.00 19.80
ATOM	1143	·CB .	ASN A 146		40.708	3.070	119.520	1.00 27.81
	1144		ASN A 146		41.924		118.967	
ATOM					42.299	5.421	119.704	1.00 19.55
ATOM	1145	ODI	ASN A 146		42.544	4 202	117.827	1.00 19.55
ATOM	1146	ND2	ASN A 146					1.00 26.32
ATOM	1147	С	ASN A 146		39.079	5.602		
	1148		ASN A 146		38.452	5.827	120.059	1.00 28.34
ATOM	-				39.512	6.605	118.231	1.00 28.46
ATOM	1149		PRO A 147		40.383	6 637	117.042	1.00 27.18
ATOM	1150	CD	PRO A 147					1.00 24.15
MOTA	1151	CÀ	PRO A 147		39.150	7.972		1.00 25.13
	1152	CB	PRO A 147		39.859		117.558	
MOTA			PRO A 147		41.081	7.959	117.235	1.00 30.05
MOTA	1153	CG			37.618		118.578	1.00 26.71
ATOM	1154	C	PRO A 147				119.456	1.00 24.93
ATOM	1155	0	PRO A 147		37.017	8.760	113.430	1.00 21.42
	1156	N	ALA A 148		36.989	7.55	7 117.562	1.00 21.42
MOTA			ALA A 148		35.536		3 117.416	1.00 21.03
MOTA	1157	CA			35.112	7.044	116.072	1.00 19.98
ATOM	1158	CB	ALA A 148		34.838		118.552	1.00 20.49
ATOM	1159	С	ALA A 148			2.02.	119.067	1.00 21.44
ATOM	1160	0	ALA A 148		33.822			1.00 19.20
	1161	N	VAL A 149		35.381	5.73	9 118.928	1.00 19.20
ATOM			VAD A 140		34.818	4.950	0 120.016	1.00 24.61
ATOM	1162	CA	VAL A 149		35.570	3 60	8 120.181	1.00 25.96
ATOM	1163	CE	VAL A 149			2.00	8 121.485	1.00 26.58
ATOM	1164	CG1	VAL A 149		35.158	2.91	6 121.405	1.00 25.67
	1165	CG2	VAL A 149		35.262	2.70	4 118.995	1.00 23.07
ATOM			VAL A 149		34.947	5.75	2 121.304	1.00 23.56
ATOM	1166	C	AND W 143		33.990		7 122.064	1.00 22.52
MOTA	1167	0	VAL A 149		33.990			
ATOM	1168	N	GLY A 150		36.143		1 121.330	
	1169	CA	GLY A 150		36.390		4 122.731	
ATOM			GLY A 150		35.477	8.28	1 122.838	1.00 25.46
atom	1170		GDI A 150		34.919		4 123.904	1.00 23.17
ATOM	1171	0	GLY A 150		25.222			1.00 24.38
ATCM	1172	N	ILE A 151		35.327			
	1173		ILE A 151		34.481	10.18	0 121.716	
ATOM			ILE A 151		34.610	10.92	8 120.371	
ATOM	1174			•	33.598	12.07	7 120.306	1.00 24.71
ATOM	1175	CG2	ILE A 151	•	36.041			1.00 28.02
ATOM	1176	CG1	ILE A 151	•		12.30		
	1177				36.354		6 118.854	
ATOM			ILE A 15	L	33.018		6 121.987	
ATOM	1178		TDD N 10.	-	32.337	10.48	32 122.763	
ATOM	1179	0	ILE A 15		32.532			1.00 26.32
ATOM	1180	N (GLU A 15	4				
	1181		GLU A 15	2	31.149	8.31		
ATOM	1101		GLU A 15	2	30.758	3 7.16	51 120.672	
ATOM	1182		CT 11 1 1 5	2	30.609	7.5	13 119.19	1.00 27.68
ATOM	1183		GLU A 15		29.45	8.50		6 1.00 31.82
ATCM	1184	CD	GLU A 15	۷_	49.77	0.5	77 117.77	
	1185	5 CE	GLU A 15	2	29.13		// ##/*//.	8 1.00 34.73
ATOM			GLU A 15	2	28.86		09 119.91	
ATOM			GLU A 15	2	31.00	9 7.8	79 123.05	5 1.00 28.00
ATCM	118		GLU A IS	2	29.98		96 123.68	3 1.00 31.23
ATOM		8 0	GLU A 15	2	23.30			
						,		

					_		7 252	122 502	1 00 20 72
MOTA	1189	N	TYR A			2.054		123.583	1.00 28.72
ATOM	1190	CA	TYR A			2.066		124.971	1.00 31.35
MOTA	1191	CB	TYR A			3.427		125.307	1.00 31.56
ATOM	1192	CG	TYR A		3	3.617		126.759	1.00 33.17
ATOM	1193	CD1	TYR A	153	3	3.111		127.280	1.00 35.43
ATOM	1194	CE1	TYR A	153	3.	3.321		128.619	1.00 33.52
ATOM	1195	CD2	TYR A	153	3	4.329	6.677	127.611	1.00 34.29
ATOM	1196	CE2	TYR A	153	3	4.544	6.342	128.944	1.00 35.34
ATOM	1197	CZ	TYR A		3	4.041	5.154	129.444	1.00 37.50
ATOM	1198	OH	TYR A			4.260		130.767	1.00 30.10
ATOM	1199	C	TYR A			1.828		125.857	1.00 32.71
	1200	0	TYR A			1.026	7.988	126.787	1.00 29.14
ATOM	1200	N	LEU A			2.538	9.102	125.552	1.00 29.65
MOTA	1201	CA	LEU A			2.413	10.332	126.310	1.00 32.87
ATOM	1202	CB	LEU A				11.329	125.847	1.00 31.46
ATOM	1203	CG	LEU A			4.910	11.053	126.324	1.00 29.68
ATOM	1204		LEU A			5.898	11.953	125.605	1.00 29.29
ATOM						4.989	11.278	127.829	1.00 27.19
ATOM	1206		LEU A			1.020	10.952	126.232	1.00 34.63
MOTA	1207	C	LEU A			0.475	11.379	127.250	1.00 32.58
ATOM	1208	0	LEU A				10.999	125.035	1.00 36.63
MOTA	1209	N	ARG A			0.443	11.569	124.869	1.00 38.36
MOTA	1210	CA	ARG A			9.107			1.00 36.30
MOTA	1211	CB	ARG A			8.661	11.502	123.405	
ATOM	1212	CG	ARG A			9.581	12.253	122.460	1.00 43.15
MOTA	1213	CD	ARG A			9.100	12.201	121.023	1.00 41.10
MOTA	1214	NE	ARG A			7.936	13.047	120.768	1.00 44.00
ATOM	1215	CZ	ARG A			7.331	13.140	119.583	1.00 54.07
ATOM	1216		ARG A			7.772	12.441	118.540	1.00 51.61
ATOM	1217	NH2	ARG A			6.291	13.948	119.424	1.00 51.76
ATOM	1218	С	ARG A			8.112	10.821	125.745	1.00 36.25
MOTA	1219	0	ARG A			7.270	11.433	126.397	1.00 39.00
MOTA	1220	N	LYS A			8.213	9.496	125.765	1.00 36.48
ATOM	1221	CA	LYS A			7.315	8.698	126.587	1.00 39.06
ATOM	1222	CB	LYS A	156		7.460	7.213	126.256	1.00 41.88
ATOM	1223	CG	LYS A	156	2	6.672	6.816	125.020	1.00 51.15
MOTA	1224	CD	LYS A	156		7.169	7.505	123.781	1.00 55.56
MOTA	1225	CE	LYS A	156		6.117	7.502	122.676	1.00 55.63
ATOM	1226	NZ	LYS A	156		4.993	8.425	123.013	1.00 49.15
MOTA	1227	С	LYS A	156		7.527	8.932	128.076	1.00 39.91
ATOM	.1228	0	LYS A	156	2	6.636	8.658	128.876	1.00 37.01
MOTA	1229	N	LYS A	157		8.703	9.431	128.448	1.00 37.73
MOTA	1230	CA	LYS A	157		8.985	9.725	129.847	1.00 36.52
MOTA	1231	CB	LYS A		_	0.493	9.700	130.122	1.00 35.64
MOTA	1232	CG	LYS A	157		1.094	8.308	130.174	1.00 35.44
ATOM	1233	CD	LYS A	157	3	0.509	7.510	131.335	1.00 31.28
MOTA	1234	CE	LYS A	157		1.077	6.106		1.00 31.48
MOTA	1235	NZ	LYS A	157		0.464	5.310	132.493	1.00 36.39
ATOM	1236	C	LYS A	157		8.423	11.097		1.00 38.12
MOTA	1237	0	LYS A	157		8.531	11.547		1.00 37.61
MOTA	1238	N	GLY A	158	2	7.842	11.768	129.205	1.00 36.27
MOTA	1239	CA	GLY A	158		7.257	13.074	129.452	1.00 34.31
ATOM	1240	С	GLY A	158	2	7.972	14.293	128.894	1.00 36.36
	1241	0	GLY A	158		7.438	15.399		1.00 32.96
MOTA	1242	N	PHE A		2	9.170		128.344	1.00 33.89
ATOM	1243	CA	PHE A	159	2	9.892	15.260		1.00 30.29
ATOM	1244	CB	PHE A		3	1.346	14.892		1.00 28.62
ATOM	1245	CG	PHE A		3	2.137	14.555	128.730	1.00 28.80
MOTA	1246		PHE A			2.043	13.300		1.00 30.41
ATOM	1247	CD2		159	3	2.951	15.513	129.327	1.00 29.37
ATOM	1248	CE1			3	2.749	12.996	130.472	1.00 34.42
ATOM	1249	CE2		159	3	3.661	15.223	130.488	1.00 31.10
ATOM	1250	cz	PHE A		3	3.561	13.963	131.062	1.00 32.32
ATOM	1251	č	PHE A			9.224	15.786	126.536	1.00 28.88
ATOM	1252	ò	PHE A			8.765	15.003	125.705	1.00 27.71
ATCM	1253	N	LYS A			9.180	17.110	126.402	1.00 30.20
ATOM	1254	CA	LYS A	160		8.550	17.766	125.254	1.00 33.98
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1.00 36.87

Figure 18-20

27.390 18.653 125.719 LYS A 160 1255 CBMOTA 1.00 39.48 26.273 17.914 126.419 LYS A 160 1256 CG MOTA 18.850 126.723 1.00 48.58 25.105 LYS A 160 1257 CD MOTA 20.003 127.651 1.00 50.81 25.500 LYS A 160 1258 CE MOTA 1.00 49.79 19.534 129.008 1.00 32.59 1.00 30.98 25.924 LYS A 160 1259 NZ MOTA 18.616 124.394 29.484 LYS A 160 C 1260 MOTA 19.085 123.327 29.093 LYS A 160 1261 0 ATOM 1.00 31.43 18.846 124.867 30.700 ARG A 161 1262 · N MOTA 1.00 29.97 19.626 124.108 31.665 ARG A .161 1263 CA ATOM 21.048 124.673 1.00 34.45 31.781 ARG A 161 1264 CB MOTA 1.00 37.63 21.854 124.610 30.476 ARG A 161 1265 CG MOTA 1.00 39.01 23.321 124.966 30.705 ARG A 161 1266 CD MOTA 23.503 126.341 1.00 43.76 31.158 ARG A 161 NE MOTA 1267 1.00 43.33 23.337 127.414 30.389 ARG A 161 1268 cz22.985 127.274 MOTA 1.00 45.95 29.117 NH1 ARG A 161 MOTA 1269 23.518 128.627 1.00 43.74 30.893 NH2 ARG A 161 1270 MOTA 1.00 32.71 18.910 124.161 33.009 ARG A 161 1271 С MOTA 19.090 125.092 1.00 28.53 33.792 ARG A 161 0 1272 ATOM 18.087 123.149 1.00 32.50 33.257 ILE A 162 1273 N MOTA 1.00 28.52 17.313 123.049 34.485 ILE A 162 ILE A 162 CA 1274 MOTA 15.821 122.820 1.00 31.42 34.146 CB MOTA 1275 1.00 24.95 14.976 122.898 35.407 CG2 ILE A 162 1276 ATOM 1.00 30.25 15.355 123.879 33.147 CG1 ILE A 162 CD1 ILE A 162 1277 1.00 34.27 1.00 26.46 ATOM 13.977 123.635 32.564 1278 MOTA 17.816 121.886 35.353 ILE A 162 1279 С MOTA 1.00 27.88 17.973 120.762 34.876 ILE A 162 1280 0 MOTA 18.067 122.168 1.00 23.13 36.626 LEU A 163 N ATOM 1281 1.00 25.74 18.534 121.156 37.575 LEU A 163 1282 ĆA MOTA 1.00 26.25 19.729 121.681 38.384 LEU A 163 MOTA 1283 CB 1.00 24.39 20.138 120.862 39.626 CG LEU A 163 CD1 LEU A 163 1284 MOTA 1.00 26.25 20.591 119.473 39.213 1285 MOTA 1.00 27.76 40.361 21.252 121.560 CD2 LEU A 163 1286 MOTA 1.00 27.09 17.416 120.792 38.547 LEU A 163 1287 C MOTA 1.00 25.25 39.053 16.721 121.674 LEU A 163 TYR A 164 1288 0 1.00 26.97 MOTA 17.257 119.496 38.808 N 1289 ATOM 1.00 26.97 16,241 119.010 39.747 TYR A 164 1290 CA MOTA 15.181 118.179 1.00 23.38 39.021 TYR A 164 CB 1.00 21.76 1291 MOTA 14.146 117.565 39.944 TYR A 164 1292 CG MOTA 1.00 22.49 13.179 118.353 40.563 CD1 TYR A 164 1293 1.00 22.90 MOTA 12.224 117.794 41.419 CE1 TYR A 164 CD2 TYR A 164 1294 1.00 18.74 ATOM 14.142 116.194 40.202 1295 1.00 23.36 MOTA 13.190 115.616 41.060 TYR A 164 1296 CE2 MOTA 1.00 21.50 12.235 116.426 41.663 1297 CZ TYR A 164 1.00 18.41 1.00 21.67 ATOM 11.296 115.878 42.506 TYR A 164 1298 OH ATOM 16.923 118.138 40.798 TYR A 164 1.00 19.75 1299 С ATOM 17.511 117.112 40.473 TYR A 164 1300 0 1.00 25.61 ATOM 16.843 118.551 42.057 ILE A 165 1301 N ATOM 17.462 117.804 1.00 24:43 43.149 ILE À 165 1302 CA MOTA 1.00 26.41 43.963 18.396 118.717 ILE A 165 1303 CB ATOM 19.017 117.937 1.00 19.36 45.127 CG2 ILE A 165 1304 1.00 23.36 ATOM 19.482 119.274 CG1 ILE A 165 CD1 ILE A 165 43.035 1305 ATOM 1.00 25.05 20.402 120.299 43.685 1306 1.00 26.91 MOTA 16.365 117.234 44.040 ILE A 165 1307 C 1.00 21.91 MOTA 15.505 117.971 44.538 ILE A 165 0 1308 MOTA 16.408 115.920 1.00 24.20 44.242 ASP A 166 1309 N 1.00 27.11 ATOM 15.386 115.228 45.022 ASP A 166 CA 1.00 28.56 ATOM 1310 14.765 114.137 44.140 ASP A 166 1311 CB 1.00 34.59 ATOM 13.461 113.599 44.699 ASP A 166 CG 1.00 30.37 1312 13.456 113.068 ATOM 45.831 OD1 ASP A 166 1313 MOTA 1.00 23.27 43.995 12.437 113.717 OD2 ASP A 166 1314 1.00 24.47 ATOM 15.924 114.614 ASP A 166 С 1.00 23.19 1315 ATOM 16.613 113.591 46.295 ASP A 166 Э 1316 1.00 23.43 15.597 115.227 ATCM 47.452 LEU A 167 1317 N 16.068 114.722 1.00 24.67 ATOM 48.738 LEU A 167 1.00 21.90 CA 1318 16.382 115.887 ATOM 49.682 LEU A 167 CB 1319 49.143 17.444 116.858 1.00 26.62 ATOM LEU A 167 1320 CG ATOM

137/263

ATOM ATOM	1321 1322 1323	CD1 LEU A 167 CD2 LEU A 167 C LEU A 167		50.249 48.658 49.405	17.845 117.821 1.00 25.88 18.668 116.092 1.00 22.40 15.092 113.755 1.00 25.82
ATOM ATOM	1324	O LEU A 167		50.504	15.345 113.262 1.00 21.89
ATOM	1325	N ASP A 168		48.736	13.977 113.488 1.00 24.69
ATOM-	1326	CA ASP A 168		49.244	12.975 112.555 1.00 24.59 11.852 112.410 1.00 27.12
MOTA	1327	CB ASP A 168 CG ASP A 168		48.209 48.722	11.852 112.410
MOTA MOTA	1328 1329	CG ASP A 168 C ASP A 168		49.423	13.686 111.209 1.00 24.17
ATOM	1330	O _ASP A 168		48.529	14.559 110.865 1.00 17.18
ATOM	1331	OD1 ASP A 168		49.085	9.644 112.227 1.00 25.40 10.750 110.364 1.00 34.72
MOTA	1332	OD2 ASP A 168 N ALA A 169	-	48.777 50.448	13.312 110.446 1.00 21.29
MOTA MOTA	1333 1334	N ALA A 169 CA ALA A 169		50.693	13.927 109.140 1.00 25.00
ATOM	1335	CB ALA A 169		52.068	13.498 108.601 1.00 21.17
ATOM	1336	C ALA A 169		49.612	13.636 108.093 1.00 26.57 14.204 107.000 1.00 26.90
	. 1337	O ALA A 169 N HIS A 170		49.641 48.673	12.746 108.406 1.00 21.63
MOTA MOTA	1338 1339	N HIS A 170 CA HIS A 170		47.592	12.445 107.468 1.00 24.79
ATOM	1340	C HIS A 170		46.243	12.867 108.045 1.00 20.98
ATOM	1341	O HIS A 170		46.044	12.849 109.255 1.00 24.12 10.950 107.131 1.00 23.17
ATOM	1342	CB HIS A 170 CG HIS A 170		47.550 48.830	10.420 106.570 1.00 30.28
ATOM ATOM	1343 1344	CG HIS A 170 ND1 HIS A 170		49.842	9.982 107.385 1.00 31.00
ATOM	1345	CE1 HIS A 170		50.825	9.634 106.577 1.00 24.33
ATOM	1346	CD2 HIS A 170		49.224 50.502	10.329 105.273 1.00 22.88 9.828 105.285 1.00 21.89
ATOM	1347 1348	NE2 HIS A 170 N HIS A 171		45.317	13.231 107.171 1.00 21.14
ATOM ATOM	1349	CA HIS A 171		43.993	13.661 107.591 1.00 25.57
ATOM	1350	CB HIS A 171		43.234	14.242 106.404 1.00 22.47 14.719 106.746 1.00 29.75
MOTA	1351	CG HIS A 171		41.857 41.433	14.719 106.746 1.00 29.75 15.648 107.634 1.00 25.58
MOTA MOTA	1352 1353	CD2 HIS A 171 ND1 HIS A 171		40.721	14.201 106.160 1.00 28.90
ATOM	1354	CE1 HIS A 171		39.656	14.787 106.676 1.00 25.35
MOTA	1355	NE2 HIS A 171		40.060	15.669 107.573 1.00 32.40 12.533 108.204 1.00 29.61
ATOM	1356	C HIS A 171 O HIS A 171		43.169 43.169	12.533 108.204 1.00 29.61 11.411 107.698 1.00 27.62
MOTA MOTA	1357 1358	O HIS A 171 N CYS A 172		42.461	12.852 109.286 1.00 26.52
ATOM	1359	CA CYS A 172		41.610	11.897 109.987 1.00 24.82. 12.322 111.456 1.00 29.47
ATOM	1360	CB CYS A 172		41.460 40.959	12.322 111.456 1.00 29.47 14.065 111.717 1.00 25.69
MOTA	1361 1362	SG CYS A 172 C CYS A 172		40.333	11.797 109.314 1.00 28.21
MOTA MOTA	1363	O CYS A 172		39.211	12.131 109.914 1.00 26.78
ATOM	1364	N ASP A 173		40.213	11.332 108.066 1.00 22.05 11.217 107.350 1.00 27.39
MOTA	1365	CA ASP A 173		38.949 39.167	11.217 107.350 1.00 27.39 10.646 105.931 1.00 30.47
ATOM	1366 1367	CB ASP A 173 CG ASP A 173		39.824	9.264 105.922 1.00 29.77
MOTA MOTA	1368	OD1 ASP A 173		39.886	8.658 104.830 1.00 21.14
ATOM	1369	OD2 ASP A 173		40.288	8.787 106.978 1.00 30.04 10.400 108.105 1.00 27.86
MOTA	1370	C ASP A 173		37.895 36.720	10.400 108.105 1.00 27.86 10.762 108.120 1.00 23.47
MOTA	1371 1372	O ASP A 173 N GLY A 174		38.309	9.315 108.753 1.00 25.84
MOTA MOTA	1373	CA GLY A 174		37.344	8.513 109.490 1.00 28.49
MOTA	1374	C GLY A 174		36.694	9.296 110.619 1.00 26.14 9.287 110.780 1.00 21.39
ATOM	1375	O GLY A 174		35.475 37.510	9.984 111.409 1.00 27.24
ATOM	1376 1377	N VAL A 175 CA VAL A 175		36.995	10.773 112.523 1.00 25.53
ATOM ATOM	1378	CB VAL A 175		38.137	11.299 113.401 1.00 30.54
ATOM	1379	CG1 VAL A 175		37.565	12.105 114.566 1.00 28.02 10.129 113.911 1.00 21.30
ATCM	1380	CG2 VAL A 175		38.973 36.163	11.955 112.035 1.00 25.01
ATOM	1381 1382	C VAL A 175 O VAL A 175		35.130	12.282 112.623 1.00 21.60
ATOM ATOM	1383	N GLN A 176		36.601	12.594 110.957 1.00 25.43
ATOM	1384	CA GLN A 176		35.854	13.730 110.426 1.00 26.12 14.336 109.205 1.00 24.71
ATCM	1385	CB GLN A 176 CG GLN A 176		36.554 35.682	15.349 108.469 1.00 26.68
atom	1386	CG GLN A 1/6		33.002	



			0			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1388 (1389 1390 (1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402	CD GLN A 176 DE1 GLN A 176 DE2 GLN A 176 DE2 GLN A 176 DE3 GLN A 176 DE4 GLN A 177 DE5 GLU A 177 DE6 GLU A 177 DE7 GLU A 177 DE7 GLU A 177 DE7 GLU A 177 DE8 GLU A 177 DE9		36.385 37.382 35.872 34.446 33.481 34.330 33.027 33.181 31.905 32.060 32.056 32.206 32.206 32.128 30.945 32.707 31.971 32.905 31.261 30.145	16.002 107.306 1.00 2 16.704 107.486 1.00 2 15.776 106.099 1.00 2 13.316 110.029 1.00 2 14.021 110.319 1.00 2 12.173 109.362 1.00 3 11.696 108.915 1.00 3 10.445 108.053 1.00 3 10.069 107.329 1.00 3 8.819 106.497 1.00 4 7.712 107.075 1.00 4 11.377 110.099 1.00 3 10.750 111.114 1.00 3 10.750 111.114 1.00 3 10.750 111.114 1.00 3 10.750 111.114 1.00 3 11.355 113.493 1.00 3 11.355 113.493 1.00 3 11.355 113.493 1.00 3	6.93 7.58 7.63 5.93 2.21 2.72 4.20 9.40 9.40 9.54 25.35 30.64 25.39 27.03 30.49 33.21 28.64
	1406	N PHE A 179		31.888		
MOTA MOTA	1407	CA PHE A 179		31.256	13.801 113.751 1.00 14.128 115.001 1.00	
ATOM	1408	CB PHE A 179		32.071		24.49
ATOM	1409	CG PHE A 179		32.469	12.909 115.781 1.00 12.375 115.657 1.00	25.04
MOTA	1410	CD1 PHE A 179		33.749 31.536		23.09
MOTA	1411	CD2 PHE A 179		34.103	11 184 116.293 1.00	16.56
ATOM	1412	CE1 PHE A 179		31.881	11.038 117.204 1.00	26.38
MOTA	1413	CE2 PHE A 179 CZ PHE A 179		33.170	10.515 117.067 1.00	20.30
MOTA	1414			31.079	15.037 112.891 1.00	31.00
MOTA	1415 1416	O PHE A 179		31.006		31.32
MOTA MOTA	1417	N TYR A 180		30.980		31.68
ATOM	1418	CA TYR A 180		30.829		32.76 35.12
ATOM	1419	CB TYR A 180		30.931		36.27
ATOM	1420	CG TYR A 180		31.331		37.31
ATOM	1421	CD1 TYR A 180		30.427		34.81
ATOM	1422	CE1 TYR A 180		30.801 32.624		36.32
MOTA	1423	CD2 TYR A 180		33.007	17.879 107.203 1.00	37.83
MOTA	1424	CE2 TYR A 180		32.088	18 304 106.250 1.00	36.05
ATOM	1425	CZ TYR A 180 OH TYR A 180		32.446	19.255 105.323 1.00	28.04
ATOM	1426	OH TYR A 180 C TYR A 180		29.518	16.696 110.825 1.00	30.94
MOTA	1427 1428	O TYR A 180		29.459		30.42
ATOM	1429	N ASP A 181		28.473		31.56
MOTA MOTA	1430	CA ASP A 181		27.180		37.30 37.68
ATOM	1431	CB ASP A 181		26.086		
ATOM	1432	CG ASP A 181		25.645	14.689 111.705 1.00	43.25
ATOM	1433	OD1 ASP A 181		26.505		46.56
ATOM	1434	OD2 ASP A 181		24.425		36.81
ATOM	1435	C ASP A 181		26.75 4 25.571		33.91
ATOM	1436	O ASP A 181		27.689		40.86
ATOM	1437	N THR A 182		27.327		38.27
ATOM	1438	CA THR A 182		27.433	16,201 116,133 1.00	37.99
ATCM	1439	CB THR A 182		27.013	16.595 117.448 1.00	35.64
ATOM	1440	OG1 THR A 182 CG2 THR A 182		28.869	15.684 116.194 1.00	35.61
ATOM	1441	100		28.177	18.546 115.746 1.00	39.51
ATOM	1442	C THR A 182		29.365	. 20.0.0	40.07
ATOM	1443 1444	N ASP A 183		27.557		37.01
ATOM	1445	CA ASP A 183		28.250		0 37.74 0 35.56
ATOM ATOM	1446	CB ASP A 183	i	27.31		0 33.36
ATOM	1447	CG ASP A 183	}	26.13		0 34.94
ATOM	1448	OD1 ASP A 183	3	25.61		0 38.17
ATOM	1449	OD2 ASP A 183	3	25.72		0 35.27
ATOM	1450	C ASP A 183	3	28.76		0 35.16
ATCM	1451	O ASP A 18	3	29.33		0 35.10
ATOM			4	28.56	2 10.71/ 147.V42 1.0	

ATOM 1453 CA GLN A 184 29,030 18,505 120.333 1.00 35.16 ATOM 1455 CG GLN A 184 28,155 17,382 120.996 1.00 36.94 ATOM 1455 CG GLN A 184 26,663 17,718 120.998 1.00 38.34 ATOM 1457 OEI GLN A 184 25,881 16.725 121.838 1.00 43.68 ATOM 1457 OEI GLN A 184 25,036 17,243 122.723 1.00 51.06 ATOM 1459 C GLN A 184 25,036 17,243 122.723 1.00 51.06 ATOM 1459 C GLN A 184 30,479 18.055 120.255 1.00 36.32 ATOM 1450 O GLN A 184 31.135 17,825 121.275 1.00 34.24 ATOM 1450 C GLN A 185 31.35 17,825 121.275 1.00 34.24 ATOM 1450 C AVAL A 185 32.348 17,825 121.275 1.00 34.24 ATOM 1461 N VAL A 185 32.348 17,825 121.275 1.00 34.24 ATOM 1463 CB VAL A 185 32.348 17,433 118.804 1.00 33.59 ATOM 1465 CG VAL A 185 32.348 17,433 118.804 1.00 33.59 ATOM 1465 CG VAL A 185 33.834 15,567 118.8003 1.00 23.80 ATOM 1465 CG VAL A 185 33.834 15,567 118.8003 1.00 23.80 ATOM 1466 C VAL A 185 33.053 18.354 17,230 10.00 35.11 ATOM 1467 O VAL A 185 32.548 18.593 116.714 1.00 27.73 ATOM 1468 N PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 34.985 19.729 117.291 1.00 30.04 ATOM 1471 CG PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 22.37 ATOM 1475 CE2 PHE A 186 37.284 21.879 116.524 1.00 22.37 ATOM 1476 CZ PHE A 186 37.284 21.879 116.03 0.00 32.24 ATOM 1478 O PHE A 186 37.284 21.879 116.03 0.00 32.24 ATOM 1478 O PHE A 186 37.284 21.879 116.03 0.00 32.23 ATOM 1478 O PHE A 186 36.032 2.074 117.051 1.00 30.22 ATOM 1478 O PHE A 186 37.284 21.879 116.03 0.00 32.23 ATOM 1478 O PHE A 186 37.284 21.879 116.03 0.00 32.23 ATOM 1478 O PHE A 186 37.284 21.879 116.03 0.00 32.23 ATOM 1480 CA VAL A 187 36.650 18.32 17.295 11.00 32.00 32.30 ATOM 1478 O PHE A 186 36.092 21.074 117.051 1.00 32.00 32.30 ATOM 1480 CA VAL A 187 38.860 19.157 11.00 32.00 32.30 ATOM 1480 CA VAL A 187 38.860 19.157 11.30 0.00 32.30 ATOM 1480 CA VAL A 187 38.860 19.157 11.30 0.00 32.30 ATOM 1480 CA VAL A 187 38.860 19.157 11.						
ATOM 1455 CG GLN A 184 28.155 17.382 120.906 1.00 38.34 ATOM 1455 CG GLN A 184 25.881 16.725 121.838 1.00 38.14 ATOM 1457 OEI GLN A 184 26.663 17.718 120.988 1.00 35.48 ATOM 1459 C GLN A 184 26.027 15.512 121.696 1.00 35.48 ATOM 1459 C GLN A 184 25.036 17.243 122.723 1.00 51.06 ATOM 1459 C GLN A 184 31.135 17.825 121.275 1.00 36.32 ATOM 1460 O GLN A 184 31.135 17.825 121.275 1.00 36.32 ATOM 1461 N VAL A 185 30.976 17.883 119.028 1.00 34.51 ATOM 1462 CA VAL A 185 31.348 17.443 118.804 1.00 34.51 ATOM 1462 CA VAL A 185 32.348 17.443 118.804 1.00 35.59 ATOM 1463 CC VAL A 185 33.834 15.567 118.003 1.00 25.80 ATOM 1465 CC VAL A 185 33.934 15.567 118.003 1.00 26.00 ATOM 1466 C VAL A 185 33.935 18.354 117.803 1.00 26.00 ATOM 1466 C VAL A 185 33.953 18.354 117.803 1.00 27.73 ATOM 1467 O VAL A 185 33.953 18.354 117.803 1.00 35.11 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 31.49 ATOM 1470 CB PHE A 186 34.215 18.872 118.184 1.00 31.49 ATOM 1470 CB PHE A 186 35.265 23.156 116.656 1.00 30.63 ATOM 1471 CB PHE A 186 35.265 23.156 116.656 1.00 30.22 33 ATOM 1472 CD PHE A 186 35.265 23.156 116.656 1.00 30.22 33 ATOM 1473 CD PHE A 186 35.265 23.156 116.656 1.00 30.22 33 ATOM 1477 CC PHE A 186 35.265 23.156 116.656 1.00 30.22 33 ATOM 1477 CC PHE A 186 35.265 24.078 115.748 1.00 27.78 ATOM 1477 C PHE A 186 35.265 24.078 115.748 1.00 27.78 ATOM 1477 C PHE A 186 35.265 24.078 115.748 1.00 27.78 ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 30.08 ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 30.08 ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 30.08 ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 30.08 ATOM 1480 CG VAL A 187 37.655 18.291 11.091 1.00 30.38 ATOM 1481 CB VAL A 187 37.655 18.291 11.091 1.00 30.08 ATOM 1483 CG VAL A 187 37.655 18.291 11.391 1.00 31.88 ATOM 1489 CG LEU A 188 42.660 18.391 11.505 1.00 22.89 ATOM 1499 O SER A 189 44.488 19.120 11.439 1.00 22.89 ATOM 1499 C SER A 189 44.488 19.120 11.439 1.00 22.89 ATOM 1499 C SER A 189 44.488 19.120 11.43	MOTA	1453	CA GLN A 184	29.030	18.505 120.333	
ATOM 1455 CG GLN A 184 26,663 17.718 120.988 1.00 38.34 ATOM 1457 OEI GLN A 184 25.881 16.725 121.838 1.00 43.68 ATOM 1457 OEI GLN A 184 25.036 17.243 122.723 1.00 36.32 ATOM 1459 C GLN A 184 25.036 17.243 122.723 1.00 36.32 ATOM 1459 C GLN A 184 30.479 18.035 120.253 1.00 34.24 ATOM 1461 N VAL A 185 30.976 17.833 119.028 1.00 34.24 ATOM 1461 N VAL A 185 30.976 17.833 119.028 1.00 34.24 ATOM 1461 CC VAL A 185 32.348 17.431 118.804 1.00 33.59 ATOM 1463 CE VAL A 185 32.348 17.431 118.804 1.00 23.80 ATOM 1465 CC VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 CC VAL A 185 33.053 18.354 17.780 119.022 1.00 26.00 ATOM 1466 C VAL A 185 33.053 18.354 17.780 1.00 33.11 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1468 N PHE A 186 34.985 97.729 117.291 1.00 30.63 ATOM 1470 CE PHE A 186 34.985 97.729 117.291 1.00 30.63 ATOM 1471 CG PHE A 186 36.008 22.047 117.951 1.00 30.34 ATOM 1473 CD PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1475 CE2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1476 CC2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1476 CC2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1477 CC PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00 30.34 ATOM 1478 CE2 PHE A 186 37.284 21.879 116.03 1.00			CB GLN A 184	28.155	# / L D O D =	
ATOM 1456 CD GLN A 184 25.881 16.725 121.838 1.00 43.68 ATOM 1457 OEI GLN A 184 26.027 15.512 121.296 1.00 35.48 ATOM 1458 NE2 GLN A 184 26.027 15.512 121.296 1.00 36.32 ATOM 1459 C GLN A 184 30.479 18.035 120.253 1.00 36.32 ATOM 1460 O GLN A 184 31.135 17.825 121.275 1.00 34.51 ATOM 1461 N VAL A 185 30.479 18.035 120.253 1.00 34.51 ATOM 1462 CA VAL A 185 32.348 17.443 118.804 1.00 33.59 ATOM 1463 CE VAL A 185 32.348 17.443 118.804 1.00 33.59 ATOM 1464 CCI VAL A 185 32.348 15.567 118.003 1.00 23.80 ATOM 1465 CCZ VAL A 185 33.834 115.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.053 18.354 117.803 1.00 32.80 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1469 CA PHE A 186 34.215 18.872 118.184 1.00 31.49 ATOM 1470 CB PHE A 186 34.215 18.872 118.194 1.00 31.49 ATOM 1471 CG PHE A 186 35.422 21.003 117.991 1.00 30.34 ATOM 1471 CG PHE A 186 35.265 23.155 116.656 1.00 32.23 ATOM 1472 CD1 PHE A 186 35.265 23.155 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 35.265 23.155 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.885 24.078 115.748 1.00 27.87 ATOM 1478 O PHE A 186 37.865 24.078 115.655 1.00 28.54 ATOM 1478 O PHE A 186 37.645 28.155 116.656 1.00 27.87 ATOM 1478 O PHE A 186 37.645 28.155 116.656 1.00 27.87 ATOM 1480 CA VAL A 187 36.478 18.877 115.574 1.00 32.23 ATOM 1478 O PHE A 186 36.023 18.952 116.659 1.00 32.23 ATOM 1478 O PHE A 186 36.232 18.952 116.659 1.00 32.23 ATOM 1478 O PHE A 186 36.232 18.952 116.659 1.00 32.23 ATOM 1480 CA VAL A 187 36.461 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 36.461 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 36.461 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 36.461 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 36.461 18.877 115.574 1.00 32.00 33.88 ATOM 1480 CA VAL A 187 38.664 19.153 114.392 1.00 33.88 ATOM 1480 CA VAL A 187 38.664 19.153 114.392 1.00 33.88 ATOM 1490 CSER A 189 44.484 19.120 11.1430 1.00 27.97 ATOM 1480 CA VAL A 187 38.894				26.663	17.718 120.988	1.00 38.34
AROM 1459 OEI GLN À 184 26.027 15.512 121.696 1.00 35.48 AROM 1459 C GLN À 184 30.479 18.035 120.253 1.00 36.32 AROM 1459 C GLN À 184 30.479 18.035 120.253 1.00 36.32 AROM 1460 O GLN À 185 30.976 17.83 119.028 1.00 34.24 AROM 1461 N VAL À 185 30.976 17.83 119.028 1.00 34.24 AROM 1461 C VAL À 185 32.348 17.431 118.804 1.00 33.59 AROM 1463 CB VAL À 185 32.348 17.443 118.804 1.00 33.59 AROM 1464 CCI VAL À 185 32.348 17.443 118.804 1.00 23.80 AROM 1465 CC2 VAL À 185 32.348 17.443 118.804 1.00 23.80 AROM 1466 C VAL À 185 32.348 17.443 118.804 1.00 23.80 AROM 1466 C VAL À 185 32.348 17.432 118.204 1.00 23.80 AROM 1466 C VAL À 185 32.348 17.432 118.204 1.00 23.80 AROM 1466 C VAL À 185 32.348 17.238 119.222 1.00 26.00 AROM 1466 C VAL À 185 32.545 18.593 116.744 1.00 27.73 AROM 1468 N PHE À 186 34.985 19.729 117.291 1.00 30.63 AROM 1470 CB PHE À 186 34.985 19.729 117.291 1.00 30.63 AROM 1471 CG PHE À 186 36.008 22.047 117.951 1.00 30.23 AROM 1473 CD2 PHE À 186 35.265 23.156 116.656 1.00 32.23 AROM 1473 CD2 PHE À 186 37.284 21.879 116.524 1.00 29.37 AROM 1475 CE2 PHE À 186 37.284 21.879 116.524 1.00 29.37 AROM 1475 CE2 PHE À 186 37.284 21.879 116.524 1.00 29.37 AROM 1476 CC2 PHE À 186 37.284 21.879 116.05 AROM 1478 O PHE À 186 36.932 18.952 116.03 AROM 1479 N YAL À 187 36.470 18.957 10.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1479 N YAL À 187 36.470 18.957 17.051 1.00 30.33 AROM 1480 CG VAL À 187 38.500 19.157 114.857 1.00 29.37 AROM 1480 CG VAL À 187 38.500 19.157 114.857 1.00 29.37 AROM 1480 CG VAL À 187 38.500 19.157 114.857 1.00 29.37 AROM 1490 CD LEU À 188 42.292 19.131 11.30 491 1.00 30.33 AROM 1489 CG EU À 188 41.488 19.20 11.30 11.30 AROM 1489 CG EU À 188 41.899 14.488 19.20 11.00 31.89 AROM 1499 C SER À 189 44.488 19.20					16 725 121.838	1.00 43.68
ATOM 1459 NEZ GIN À 184						
ATOM 1459 C GIN A 184 30.479 18.035 120.253 1.00 36.32 ATOM 1461 N VAL A 185 30.976 17.883 119.028 1.00 34.51 ATOM 1461 N VAL A 185 30.976 17.883 119.028 1.00 34.51 ATOM 1462 CA VAL A 185 32.393 15.990 118.259 1.00 35.11 ATOM 1464 CGI VAL A 185 33.834 15.567 118.003 1.00 33.80 ATOM 1465 CG2 VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.053 18.872 118.184 1.00 23.10 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1468 N PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1471 CB PHE A 186 35.420 21.023 117.991 1.00 30.34 ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CC2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CC2 PHE A 186 37.813 22.794 115.748 1.00 29.37 ATOM 1476 C2 PHE A 186 37.813 22.794 115.748 1.00 29.37 ATOM 1477 C PHE A 186 37.813 22.794 115.748 1.00 29.37 ATOM 1478 O PHE A 186 37.813 22.794 115.748 1.00 29.37 ATOM 1479 N VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.655 18.426 117.729 1.00 23.03 ATOM 1482 CG VAL A 187 37.655 18.426 117.729 1.00 23.03 3.03 ATOM 1486 CB VAL A 187 37.655 18.126 117.729 1.00 23.03 3.03 ATOM 1486 CB VAL A 187 38.604 19.153 114.392 1.00 23.03 3.03 ATOM 1486 CB VAL A 187 38.604 19.153 114.392 1.00 23.03 3.03 ATOM 1486 CB VAL A 187 38.604 19.153 114.392 1.00 23.03 3.03 ATOM 1486 CB VAL A 187 38.604 19.153 114.392 1.00 23.03 3.03 ATOM 1489 C CEU A 188 42.826 22.155 114.963 1.00 27.77 ATOM 1490 CD LEU A 188 42.826 22.155 114.963 1.00 27.94 ATOM 1490 CD LEU A 188 42.826 22.155 114.963 1.00 23.98 ATOM 1491 CD LEU A 188 42.826 22.155 114.963 1.00 23.98 ATOM 1490 C CEU A 188 42.826 22.155 114.963 1.00 23.99 ATOM 1490 C CEU A 189 44.044 19.891 11.025 1.00 23.99 ATOM 1500	MOTA	1457				
ATOM 1460 O GLN A 184 30.479 18 0.35 120.253 1.00 34.24 ATOM 1461 N VAL A 185 30.976 17.883 119.028 1.00 34.51 ATOM 1462 CA VAL A 185 30.976 17.883 119.028 1.00 34.51 ATOM 1463 CB VAL A 185 32.348 17.443 118.804 1.00 33.59 ATOM 1464 CC VAL A 185 32.348 17.443 118.804 1.00 33.59 ATOM 1465 CG2 VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.053 18.354 117.802 11.00 26.00 ATOM 1466 C VAL A 185 33.053 18.354 117.803 1.00 23.81 ATOM 1466 C VAL A 185 33.053 18.354 117.803 1.00 23.81 ATOM 1466 C VAL A 185 33.053 18.354 117.803 1.00 23.31 ATOM 1468 N PHE À 186 34.215 18.872 118.184 1.00 27.73 ATOM 1468 N PHE À 186 34.255 18.593 116.714 1.00 27.73 ATOM 1470 CB PHE À 186 34.255 18.872 118.184 1.00 30.63 ATOM 1471 CG PHE À 186 35.420 21.023 117.991 1.00 30.63 ATOM 1473 CD2 PHE À 186 35.420 21.023 117.991 1.00 30.22 ATOM 1473 CD2 PHE À 186 37.284 21.879 117.551 1.00 32.23 ATOM 1474 CE1 PHE À 186 37.854 21.879 116.524 1.00 29.37 ATOM 1475 CC2 PHE À 186 37.854 21.879 116.524 1.00 29.37 ATOM 1476 C PHE À 186 37.854 21.879 116.524 1.00 29.37 ATOM 1476 C PHE À 186 37.864 21.879 116.524 1.00 29.37 ATOM 1478 N PHE À 186 36.952 18.426 117.729 1.00 30.38 ATOM 1478 N PHE À 186 36.952 18.426 117.729 1.00 30.38 ATOM 1478 N PHE À 186 36.952 18.426 117.729 1.00 23.30 ATOM 1481 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CB VAL À 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CB VAL À 187 38.510 16.488 113.4052 1.00 23.00 ATOM 1489 C C ELU À 188 42.666 2.2151 11.00 41.00 25.98 ATOM 1490 CC ELU À 188 42.666 2.2151 11.00 61 1.00 23.98 ATOM 1497 CC ELU À 188 42.666 2.2151 11.00 61 1.00 23.99 ATOM 1499 C C ELU À 188 42.666 2.2151 11.00 61 1.00 23.48 ATOM 1499 C C ELU À 188 42.666 2.2151 11.00 61 1.00 23.99 ATOM 1499 C C ER À 189 44.048 19.189 11.2251 1.00 23.69 ATOM 1499 C C ER À 189 44.048	ATOM	1458				
ATOM 1461 N VAL A 185 30.976 17.825 121.275 1.00 34.51 ATOM 1461 N VAL A 185 30.976 17.823 119.028 1.00 34.51 ATOM 1463 CB VAL A 185 32.348 17.443 118.804 1.00 33.59 ATOM 1463 CB VAL A 185 32.348 17.443 118.804 1.00 23.80 ATOM 1464 CG1 VAL A 185 32.348 15.567 118.003 1.00 23.80 ATOM 1465 CG2 VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.053 18.354 117.403 1.00 23.80 ATOM 1467 O VAL A 185 32.348 18.544 117.403 1.00 23.10 ATOM 1467 CB PHE A 186 34.215 18.872 118.184 1.00 31.49 ATOM 1467 CB PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 35.460 21.023 117.991 1.00 30.34 ATOM 1471 CG PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1475 CE2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1476 CZ PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1477 CD PHE A 186 37.285 24.078 115.748 1.00 27.87 ATOM 1478 CD PHE A 186 37.813 22.794 115.615 1.00 30.80 ATOM 1479 N VAL A 187 37.613 21.922 116.879 1.00 33.38 ATOM 1480 CB VAL A 187 38.510 16.488 117.729 1.00 30.03 ATOM 1481 CB VAL A 187 38.510 16.488 117.729 1.00 30.03 ATOM 1484 C VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 N CB VAL A 187 38.510 19.157 114.857 1.00 25.98 ATOM 1486 N CEU A 188 43.30 22.485 114.933 114.392 1.00 31.03 ATOM 1490 CD LEU A 188 43.30 22.485 114.933 114.392 1.00 23.00 ATOM 1491 CD LEU A 188 43.30 19.30 112.540 1.00 27.94 ATOM 1499 C CEU A 188 43.30 19.30 112.087 1.00 23.89		1459	C GLN A 184	30.479	18.035 120.253	
ATOM 1461 N				31.135	17.825 121.275	
ATOM 1463 CB VAL A 185 32.393 15.990 118.259 1.00 33.59 1.00 ATOM 1464 CGI VAL A 185 32.393 15.990 118.259 1.00 35.11 ATOM 1464 CGI VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.834 15.567 118.003 1.00 23.80 ATOM 1466 C VAL A 185 33.834 15.567 118.003 1.00 23.81 ATOM 1467 O VAL A 185 33.053 18.354 117.803 1.00 33.11 ATOM 1467 O VAL A 185 32.545 18.593 116.714 1.00 27.773 ATOM 1469 CA PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1471 CG PHE A 186 35.462 21.023 117.991 1.00 30.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1473 CC2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1473 CC2 PHE A 186 37.813 22.794 115.615 1.00 28.54 ATOM 1476 CC2 PHE A 186 37.645 23.156 116.656 1.00 32.23 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 30.80 ATOM 1479 N VAL A 187 37.645 18.171 115.605 1.00 32.80 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 28.30 ATOM 1482 CG1 VAL A 187 37.645 18.171 115.606 1.00 29.70 ATOM 1488 CA VAL A 187 37.645 18.171 115.600 1.00 29.70 ATOM 1484 C VAL A 187 37.645 18.171 115.600 1.00 29.70 ATOM 1484 C VAL A 187 37.645 18.171 115.600 1.00 29.70 ATOM 1484 C VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1489 CG LEU A 188 42.823 21.565 114.099 1.00 30.03 ATOM 1489 CG LEU A 188 42.823 21.565 114.096 31.00 27.74 ATOM 1499 CG LEU A 188 42.823 21.565 114.993 1.00 31.03 ATOM 1499 C SER A 189 44.448 19.151 113.681 1.00 27.04 ATOM 1499 CG LEU A 188 42.823 21.565 114.993 1.00 23.09 ATOM 1499 C SER A 189 44.448 19.831 113.815 1.00 22.88 ATOM 1497 CG SER A 189 44.448 19.20 117.144 1.00 CD 1.64 ATOM 1499 C SER A 189 44.448 19.831 113.815 1.00 31.22 ATOM 1499 C SER A 189 44.448 19.831 112.253 1.00 22.14 ATOM 1499 C SER A 189 44.448 19.831 112.253 1.00 22.14 ATOM 1499 C SER A 189 44.448 19.831 112.253 1.00 22.89 ATOM 1499 C SER A 189 44.448 19.831 112.253 1.00 22.89 ATOM 1500 C SER A 189 44.448 19.831 112.253 1.00 22.89 ATOM 1500 C SER A 189 44.448 19.					17.883 119.028	1.00 34.51
ATOM 1463 CB VAL A 185						1.00 33.59
ATOM 1464 CG1 VAL A 185 ATOM 1465 CG2 VAL A 185 ATOM 1466 C ATOM 1467 O ATOM 1468 N ATOM 1469 CA ATOM 1470 CB ATOM 1470 CB ATOM 1470 CB ATOM 1471 CG ATOM 1471 CG ATOM 1471 CG ATOM 1472 CD1 ATOM 1473 CD2 ATOM 1473 CD2 ATOM 1473 CD2 ATOM 1474 CE1 ATOM 1474 CE1 ATOM 1475 CC2 ATOM 1475 CC2 ATOM 1476 CZ ATOM 1476 CZ ATOM 1477 CP ATOM 1478 O ATOM 1478 O ATOM 1479 N ATOM 1480 CA ATOM 1479 N ATOM 1481 CB ATOM 1481 CB ATOM 1482 CG1 ATOM 1482 CG1 ATOM 1482 CG1 ATOM 1483 CG2 ATOM 1484 CG1 ATOM 1485 O ATOM 1486 CA ATOM 1487 CB ATOM 1480 CA ATOM 1480	ATOM					
ATOM 1465 CG2 VAL A 185 ATOM 1466 C VAL A 185 ATOM 1467 O VAL A 185 ATOM 1468 N PHE A 186 ATOM 1468 N PHE A 186 ATOM 1469 CA PHE A 186 ATOM 1470 CB PHE A 186 ATOM 1471 CG PHE A 186 ATOM 1472 CD1 PHE A 186 ATOM 1472 CD1 PHE A 186 ATOM 1473 CD2 PHE A 186 ATOM 1474 CE1 PHE A 186 ATOM 1475 CE2 PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 CD2 PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 CD2 PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 CZ PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 CZ PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1483 CG2 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 N LEU A 187 ATOM 1486 N LEU A 188 ATOM 1487 CA 188 ATOM 1488 CB LEU A 188 ATOM 1489 C CO VAL A 187 ATOM 1489 C CD1 LEU A 188 ATOM 1499 CD1 LEU A 188 ATOM 1499 CD2 LEU A 188 ATOM 1499 CD3 LEU A 188 ATO	MOTA	1463			15.990 116.255	
ATOM 1466 C CQ VAL A 185 31.731 15.045 119.242 1.00 28.31.13 ATOM 1467 0 VAL A 185 32.545 18.593 116.714 1.00 27.73 ATOM 1468 N PHE A 186 34.215 18.872 118.184 1.00 31.49 ATOM 1469 CA PHE A 186 34.285 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 35.420 21.023 117.991 1.00 30.03 ATOM 1471 CG PHE A 186 35.420 21.023 117.991 1.00 30.03 ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 115.748 1.00 27.87 ATOM 1473 CD2 PHE A 186 35.265 23.156 115.748 1.00 27.87 ATOM 1474 CE1 PHE A 186 35.265 23.156 115.748 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.064 23.892 115.748 1.00 27.87 ATOM 1476 CZ PHE A 186 36.952 18.426 117.729 1.00 30.80 ATOM 1476 CZ PHE A 186 36.952 18.426 117.729 1.00 28.30 ATOM 1478 0 PHE A 186 36.952 18.426 117.729 1.00 28.30 ATOM 1478 0 PHE A 187 37.655 18.877 115.574 1.00 20.00 ATOM 1480 CA VAL A 187 37.655 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.655 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1485 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1490 CD1 LEU A 188 42.262 19.113 113.648 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.263 19.233 113.648 1.00 27.04 ATOM 1490 CD LEU A 188 42.263 19.230 112.540 1.00 25.15 ATOM 1499 C CD LEU A 188 42.266 22.315 113.648 1.00 27.04 ATOM 1499 C CD LEU A 188 42.269 19.230 112.540 1.00 25.83 ATOM 1499 C CD LEU A 188 42.266 22.315 113.648 1.00 27.04 ATOM 1500 C CD LEU A 188 42.269 19.230 112.540 1.00 25.83 ATOM 1499 C CD LEU A 188 42.269 19.230 112.540 1.00 25.83 ATOM 1499 C CD LEU A 188 42.269 19.230 112.540 1.00 25.83 ATOM 1499 C CD LEU A 180 42.269 19.230 112.540 1.00 23.99 ATOM 1500 C CD LEU A 190 47.752 20.00 111.456 1.00 13.28 ATOM 1	ATOM	1464			15.56/ 118.003	
ATOM 1466 C VAL A 185 33.053 18.354 117.803 1.00 33.11 ATOM 1467 O VAL A 185 32.554 18.593 116.714 1.00 27.73 ATOM 1468 N PHE A 186 34.215 18.872 118.184 1.00 31.49 ATOM 1470 CB PHE A 186 34.985 19.729 117.291 1.00 30.63 ATOM 1470 CB PHE A 186 35.420 21.023 117.991 1.00 30.63 ATOM 1471 CG PHE A 186 35.265 23.156 116.656 1.00 30.22 ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 30.23 ATOM 1473 CD2 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1475 CE2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1475 CE2 PHE A 186 37.864 23.892 115.615 1.00 28.54 ATOM 1476 CZ PHE A 186 37.664 23.892 115.615 1.00 28.54 ATOM 1477 C PHE A 186 36.952 18.952 116.879 1.00 33.38 ATOM 1477 C PHE A 186 36.952 18.426 117.729 1.00 33.38 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 33.38 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 33.08 OATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 33.08 OATOM 1478 O PHE A 187 36.478 18.877 115.574 1.00 27.77 ATOM 1480 CC VAL A 187 37.645 18.71 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.525 17.095 114.019 1.00 30.03 ATOM 1481 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CCC VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1485 O VAL A 187 38.510 16.488 113.405 1.00 27.70 ATOM 1487 CA LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1486 N LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1489 CG LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1499 CC LEU A 188 42.823 21.555 114.963 1.00 27.04 ATOM 1499 CC LEU A 188 42.823 21.555 114.963 1.00 27.04 ATOM 1499 CC LEU A 188 42.823 21.555 114.963 1.00 27.04 ATOM 1499 CC LEU A 188 42.823 21.555 114.963 1.00 25.15 ATOM 1499 CC LEU A 188 42.823 21.555 114.963 1.00 27.04 ATOM 1499 CC LEU A 188 42.823 115.207 114.903 110.00 33.41 ATOM 1499 CC LEU A 188 42.823 115.209 112.500 1.00 33.41 ATOM 1499 CC LEU A 188 42.823 115.209 112.500 1.00 33.41 ATOM 1499 CC LEU A 188 42.823 117.629 111.09 110.00 33.41 ATOM 1499 CC LEU A 189 42.821 17.049 111.199 1.00 33.41 ATOM 1499 CC LEU A 190 47.7		1465	CG2 VAL A 185	31.731	15.045 119.242	
ATOM 1468 N PHE A 186			C VAL A 185	33.053	18.354 117.803	1.00 33.11
ATOM 1468 N PHE A 186						1.00 27.73
ATOM 1469 CA PHE A 186 34.985 19.729 117.291 1.00 30.634 ATOM 1470 CB PHE A 186 35.420 21.023 117.991 1.00 30.34 ATOM 1471 CG PHE A 186 35.420 21.023 117.991 1.00 30.34 ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.884 21.879 116.524 1.00 29.37 ATOM 1474 CE1 PHE A 186 37.884 21.879 116.524 1.00 29.37 ATOM 1475 CE2 PHE A 186 37.881 22.794 115.615 1.00 28.54 ATOM 1476 CZ PHE A 186 37.881 22.794 115.615 1.00 28.54 ATOM 1476 CZ PHE A 186 37.064 23.892 115.227 1.00 30.80 ATOM 1477 C PHE A 186 36.232 18.952 116.879 1.00 30.80 ATOM 1478 O PHE A 186 36.232 18.952 116.879 1.00 28.30 ATOM 1478 O PHE A 186 36.252 18.426 117.729 1.00 28.30 ATOM 1478 O PHE A 186 36.552 18.426 117.729 1.00 28.30 ATOM 1480 CA VAL A 187 37.645 18.171 115.001 10.0 29.70 ATOM 1481 CB VAL A 187 37.645 18.171 115.001 10.0 29.70 ATOM 1482 CGI VAL A 187 37.252 17.095 114.019 1.00 30.03 ATOM 1482 CGI VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CB VAL A 187 38.604 19.153 114.392 1.00 31.88 ATOM 1487 CA LEU A 188 40.899 20.010 114.672 1.00 31.88 ATOM 1488 CB LEU A 188 41.468 20.959 115.361 1.00 25.98 ATOM 1489 CG LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.98 ATOM 1499 C SER A 189 42.821 17.249 111.199 1.00 30.13 ATOM 1499 C SER A 189 42.821 17.249 111.199 1.00 30.33 ATOM 1499 C SER A 189 42.821 17.249 111.199 1.00 30.31 ATOM 1506 C LEU A 190 47.733 21.075 112.592 1.00 28.99 ATOM 1500 N LEU A 190 47.733 21.075 112.592 1.00 23.69 ATOM 1500 N LEU A 190 47.733 21.075 112.592 1.00 22.94 ATOM 1500 C C LEU A 190 47.733 21.075 112.593 1.00 22.94 ATOM 1500 C C LEU A 190 47.733 21.075 112.592 1.00 23.69 ATOM 1500 C C LEU A 190 47.733 21.075 112.593 1.00 23.69 ATOM 1500 C C LEU A 190 4			VAL A 105			1.00 31.49
ATOM 1470 CB PHE A 186 35.420 21.023 117.991 1.00 30.32 ATOM 1471 CG PHE A 186 36.008 22.047 117.051 1.00 30.22 ATOM 1472 CD1 PHE A 186 35.265 23.155 116.6556 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 27.87 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.284 21.879 116.524 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.813 22.794 115.615 1.00 30.34 ATOM 1475 CP PHE A 186 37.644 23.892 115.227 1.00 30.80 ATOM 1477 CP PHE A 186 36.952 18.426 117.729 1.00 23.38 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 23.38 ATOM 1478 O PHE A 187 36.478 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 37.645 18.171 115.060 1.00 27.77 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 27.77 ATOM 1482 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1482 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CG VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 CG VAL A 187 38.510 18.488 114.692 1.00 31.03 ATOM 1486 CG LEU A 188 39.850 19.153 114.672 1.00 23.08 ATOM 1486 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1488 CB LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1490 CD1 LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1493 C LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1493 C LEU A 188 42.686 22.315 113.648 1.00 25.58 ATOM 1499 C D LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1499 C D LEU A 188 42.599 18.333 114.587 1.00 25.15 ATOM 1499 C LEU A 188 42.599 18.333 114.587 1.00 25.15 ATOM 1499 C D LEU A 188 42.599 18.333 114.587 1.00 25.83 ATOM 1499 C D LEU A 188 42.599 18.333 114.587 1.00 25.83 ATOM 1499 C D LEU A 189 42.686 12.00 111.439 1.00 23.01 ATOM 1500 C D LEU A 190 46.691 22.093 112.540 1.00 33.41 ATOM 1500 C D LEU A 190 46.691 22.093 112.540 1.00 23.01 ATOM 1500 C D LEU A 190 46.691 22.093 112.540 1.00 23.01 ATOM 1500 C D LEU A 190 46.691 22.093 112.540 1.00 23.01 ATOM 1500 C D LEU A 190 46.691 22.093 112.087 1.00 23.89 ATOM 1500 C D L	MOTA					
ATOM 1471 CG PHE A 186 36.008 22.047 117.051 1.00 30.22 3 ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1475 CE2 PHE A 186 37.884 21.879 116.524 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.664 23.892 115.277 1.00 30.80 ATOM 1476 C PHE A 186 36.232 18.952 116.879 1.00 33.38 ATOM 1478 O PHE A 186 36.252 18.426 117.729 1.00 28.30 ATOM 1478 O PHE A 186 36.552 18.426 117.729 1.00 28.30 ATOM 1478 O PHE A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CA VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1485 O VAL A 187 38.510 16.488 113.495 1.00 27.77 ATOM 1485 O VAL A 187 38.604 19.153 114.392 1.00 31.08 ATOM 1486 N LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1487 CA LEU A 188 40.899 20.10 114.304 1.00 26.92 ATOM 1488 CB LEU A 188 41.468 20.959 115.361 1.00 27.55 ATOM 1489 CG LEU A 188 42.866 22.315 113.648 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.866 22.315 113.648 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.866 22.315 113.648 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 33.41 ATOM 1499 CD2 LEU A 188 42.599 18.333 114.587 1.00 33.98 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 33.98 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 33.98 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 25.15 ATOM 1490 CD2 LEU A 188 42.599 18.333 114.587 1.00 25.15 ATOM 1490 CD2 LEU A 189 42.811 17.249 111.199 1.00 33.41 ATOM 1490 CD2 LEU A 189 42.811 17.249 111.199 1.00 33.90 ATOM 1490 CD2 LEU A 189 42.591 18.991 112.501 1.00 23.99 ATOM 1500 CD2 LEU A 190 46.691 22.093 112.007 1.00 23.29 ATOM 1500 CD	MOTA					
ATOM 1472 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1473 CD2 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1474 CE1 PHE A 186 35.785 24.078 115.748 1.00 27.87 ATOM 1475 CE2 PHE A 186 37.813 22.794 115.615 1.00 22.854 ATOM 1476 CZ PHE A 186 37.813 22.794 115.615 1.00 28.84 ATOM 1477 C PHE A 186 36.232 18.952 116.879 1.00 33.38 ATOM 1478 O PHE A 186 36.232 18.952 116.879 1.00 33.38 ATOM 1479 N VAL A 187 37.645 18.877 115.574 1.00 32.00 ATOM 1480 CA VAL A 187 37.645 18.877 115.574 1.00 32.00 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1482 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 25.98 ATOM 1486 N LEU A 188 38.50 19.895 113.491 1.00 31.03 ATOM 1486 N LEU A 188 38.50 19.157 114.857 1.00 26.92 ATOM 1488 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1499 CD1 LEU A 188 42.666 22.315 113.648 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.31 ATOM 1495 CB LEU A 188 42.202 19.113 113.815 1.00 31.22 ATOM 1496 CB SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1496 CB SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1496 CB SER A 189 42.821 7.249 111.99 1.00 33.41 ATOM 1500 N LEU A 188 42.823 21.565 114.963 1.00 25.83 ATOM 1496 CB SER A 189 42.821 7.249 111.99 1.00 33.41 ATOM 1500 CB LEU A 190 44.448 19.20 111.1253 1.00 22.98 ATOM 1500 N LEU A 190 47.752 RB.333 114.587 1.00 22.88 ATOM 1500 N LEU A 190 47.752 RB.333 114.587 1.00 22.89 ATOM 1500 CB LEU A 190 47.752 RB.333 114.587 1.00 22.89 ATOM 1500 CB LEU A 190 47.752 RB.333 114.587 1.00 22.38 ATOM 1500 CB LEU A 190 47.752 RB.333 114.587 1.00 23.69 ATOM 1500 CB LEU A 190 47.752 RB.333 114.064 1.00 22.23 RB.370M 1500 CB LEU A 190 47.752 RB.333 114.064 RB.330 CB LEU A 190 47.752 RB.	ATOM	1470				
ATOM 1473 CD1 PHE A 186 35.265 23.156 116.656 1.00 32.23 ATOM 1474 CE1 PHE A 186 37.284 21.879 116.524 1.00 29.37 ATOM 1475 CE2 PHE A 186 35.785 24.078 115.748 1.00 29.37 ATOM 1476 CZ PHE A 186 35.765 23.892 115.227 1.00 30.80 ATOM 1476 CZ PHE A 186 36.332 18.952 116.879 1.00 33.38 ATOM 1477 C PHE A 186 36.332 18.952 116.879 1.00 33.38 ATOM 1478 O PHE A 186 36.332 18.952 116.879 1.00 23.39 ATOM 1479 N VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1480 CA VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1483 CG VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1486 N LEU A 187 38.610 16.003 114.672 1.00 25.98 ATOM 1486 N LEU A 188 38.850 19.157 114.857 1.00 24.88 ATOM 1488 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1488 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 42.666 22.315 113.648 1.00 27.04 ATOM 1490 CD1 LEU A 188 42.666 22.315 113.648 1.00 27.04 ATOM 1491 CD2 LEU A 188 42.666 22.315 113.648 1.00 27.04 ATOM 1493 O LEU A 188 42.666 22.315 113.648 1.00 25.83 ATOM 1497 OG SER A 189 42.369 19.230 112.540 1.00 30.13 ATOM 1497 OG SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1500 N LEU A 190 47.955 20.000 111.459 1.00 22.98 ATOM 1507 O LEU A 190 47.955 20.000 111.459 1.00 22.98 ATOM 1507 O LEU A 190 47.955 20.000 111.459 1.00 22.98 ATOM 1507 O LEU A 190 47.955 20.000 111.459 1.00 22.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1500 CA LEU A 190 47.955 20.00		1471	CG PHE A 186	36.008		
ATOM 1473 CD2 PHE A 186 ATOM 1474 CE1 PHE A 186 ATOM 1475 CE2 PHE A 186 ATOM 1475 CE2 PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 CA VAL A 187 ATOM 1486 CA VAL A 187 ATOM 1487 CA LEU A 188 ATOM 1486 N LEU A 188 ATOM 1487 CA LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1493 O LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1495 CA SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 CB LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1493 O LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1495 CA SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C SER A 189 ATOM 1499 O SER A 189 ATOM 1490 CD1 LEU A 188 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OF SER A 189 ATOM 1498 C SER A 189 ATOM 1499 O SER A 189 ATOM 1499 O SER A 189 ATOM 1499 O SER A 189 ATOM 1490 CD1 LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OF SER A 189 ATOM 1498 C SER A 189 ATOM 1499 O SER A 189 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 C SER A 189 ATOM 150				35.265	23.156 116.656	
ATOM 1476 CE1 PHE A 186 ATOM 1476 CE2 PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1483 CC2 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 N LEU A 187 ATOM 1486 N LEU A 188 ATOM 1487 CA LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1493 O LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 CG LEU A 188 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 CG LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 CG LEU A 188 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 CB LEU A 188 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C CB LEU A 188 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1498 C CB SER A 189 ATOM 1497 OF SER A 189 ATOM 1498 C CB SER A 189 ATOM 1497 OF SER A 189 ATOM 1497 OF SER A 189 ATOM 1498 C CB SER A 189 ATOM 1497 OF SER A 189 ATOM 1500 N LEU A 190 ATOM 1501 CA LEU A 190 ATOM 1501 CA LEU A 190 ATOM 1502 CB LEU A 190 ATOM 1503 CG LEU A 190 ATOM 1504 CD1 LEU A 190 ATOM 1505 CD2 LEU A 190 ATOM 1506 C LEU A 190 ATOM 1507 O LEU A 190 ATOM 1508 C LEU A 190 ATOM 1509 CA HIS A 191 ATOM 1501 CH SER A 191 ATOM 1501 CB LEU A 190 ATOM 1501 CB LEU A 190 ATOM 1501 CB LEU A 190 ATOM 1502 CB LEU A 190 ATOM 1503 CG LEU A 190 ATOM 1504 CD1 LEU A 190 ATOM 1505 CD2 LEU A 190 ATOM 1506 C LEU A 190 ATOM 1507 O LEU A 190 ATOM 1508 CB LEU A 190 ATOM 1508 CB LEU A 19				37.284	21.879 116.524	1.00 29.37
ATOM 1475 CE2 PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1476 CZ PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1477 C PHE A 186 ATOM 1478 O PHE A 186 ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CGI VAL A 187 ATOM 1483 CG2 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 CA VAL A 187 ATOM 1487 CA VAL A 187 ATOM 1488 CG VAL A 187 ATOM 1486 C VAL A 187 ATOM 1487 CA LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1490 CD LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1494 O SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1499 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO LEU A 190 ATOM 1498 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO LEU A 188 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1499 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO LEU A 190 ATOM 1498 C SER A 189 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO LEU A 190 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1499 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 CO SER A 189 ATOM 1497 CO SER A 189 ATOM 1498 C SER A 189 ATOM 1499 C SER A 189 ATOM 1496 CB SER A 189 ATOM 1500 N LEU A 190 ATOM 1500 C LEU A 190					24 078 115,748	1.00 27.87
ATOM 1476 CZ PHE A 186 37.064 23.892 115.227 1.00 30.80 ATOM 1477 C PHE A 186 36.232 18.952 116.879 1.00 33.38 ATOM 1478 O PHE A 186 36.952 18.952 116.879 1.00 23.30 ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 32.00 ATOM 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.252 17.095 114.019 1.00 30.03 ATOM 1482 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1485 C VAL A 187 38.6410 16.003 114.672 1.00 25.98 ATOM 1485 C VAL A 187 38.6410 16.003 114.672 1.00 25.98 ATOM 1485 C VAL A 187 38.215 19.895 113.491 1.00 31.88 ATOM 1486 N LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1490 CD1 LEU A 188 42.823 21.555 114.963 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.823 21.555 114.963 1.00 25.83 ATOM 1492 C LEU A 188 42.823 21.555 114.963 1.00 25.83 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1499 C SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1499 C SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1499 C SER A 189 44.084 19.891 11.253 1.00 32.98 ATOM 1499 C SER A 189 44.084 19.891 11.253 1.00 22.14 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.252 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.253 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.253 1.00 22.48 ATOM 1500 C SER A 189 44.084 19.891 11.253 1.00 22.48 ATOM 1500 C					22 794 115 615	
ATOM 1477 C PHE A 186 36.232 18.952 116.889 1.00 33.38 ATOM 1478 O PHE A 186 36.952 18.426 117.729 1.00 28.30 ATOM 1479 N VAL A 187 37.645 18.171 115.5060 1.00 29.70 ATOM 1480 CA VAL A 187 37.645 18.171 115.5060 1.00 29.70 ATOM 1481 CB VAL A 187 37.252 17.095 114.019 1.00 30.03 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 25.98 ATOM 1485 O VAL A 187 38.604 19.153 114.392 1.00 31.03 ATOM 1486 N LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1487 CA LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CB LEU A 188 40.899 20.010 114.304 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.686 22.315 113.648 1.00 27.04 ATOM 1492 C LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1493 O LEU A 188 42.686 22.315 113.648 1.00 25.83 ATOM 1493 O LEU A 188 42.686 22.315 113.648 1.00 25.83 ATOM 1495 CA SER A 189 42.429 18.399 112.007 1.00 30.53 ATOM 1495 CA SER A 189 42.429 18.399 112.007 1.00 30.53 ATOM 1495 CA SER A 189 42.821 17.249 111.199 1.00 31.22 ATOM 1495 CB SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1500 N LEU A 190 45.728 18.877 11.253 1.00 22.14 ATOM 1500 N LEU A 190 45.728 18.877 11.253 1.00 22.14 ATOM 1500 CD1 LEU A 190 46.691 22.093 112.087 1.00 23.69 ATOM 1503 CG LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1505 CD2 LEU A 190	MOTA		CE2 PHE A 186			
ATOM 1478 O PHE A 186 ATOM 1479 N VAL A 187 ATOM 1480 CA VAL A 187 ATOM 1481 CB VAL A 187 ATOM 1482 CG1 VAL A 187 ATOM 1482 CG2 VAL A 187 ATOM 1483 CG2 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 N LEU A 188 ATOM 1487 CA LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1499 CD1 LEU A 188 ATOM 1499 CD1 LEU A 188 ATOM 1499 C C LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1495 CA SER A 189 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 CD LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 CB LEU A 190 ATOM	MOTA					
ATOM 1479 N VAL A 187 36.478 18.877 115.574 1.00 32.00 1480 CA VAL A 187 37.645 18.171 115.060 1.00 29.70 37.00 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 37.00 1481 CB VAL A 187 37.645 18.171 115.060 1.00 29.70 37.00 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 38.510 16.488 113.405 1.00 25.98 38.50 1484 C VAL A 187 38.604 19.153 114.392 1.00 31.03 37.00 1485 O VAL A 187 38.604 19.153 114.392 1.00 31.03 37.00 1485 O VAL A 188 38.50 19.157 114.857 1.00 24.88 37.00 1485 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 4.80 37.00 1489 CB LEU A 188 40.899 20.010 114.304 1.00 27.04 37.00 1489 CB LEU A 188 42.686 22.315 113.648 1.00 27.04 37.00 1499 CD1 LEU A 188 42.686 22.315 113.648 1.00 18.53 37.00 1499 CD LEU A 188 42.686 22.315 113.648 1.00 18.53 37.00 1495 CA SER A 189 42.369 19.230 112.540 1.00 31.22 37.00 1498 CB SER A 189 42.821 17.249 111.199 1.00 31.34 37.00 1499 CB SER A 189 42.821 17.249 111.199 1.00 32.98 37.00 1499 CB SER A 189 44.448 19.120 11.11.199 1.00 32.98 37.00 1500 N LEU A 190 46.805 19.438 110.614 1.00 22.14 37.00 1500 N LEU A 190 46.805 19.438 110.614 1.00 22.93 37.00 37.94 37.00 1500 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1500 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1500 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1502 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501 CD LEU A 190 47.955 20.000 111.459 1.00 23.69 37.00 1501	ATOM	1477			18.952 116.879	
ATOM 1479 N VAL A 187			O PHE A 186	36.952		
ATOM 1480 CA VAL A 187 37.645 18.171 115.060 1.00 29.70 ATOM 1481 CB VAL A 187 37.252 17.095 114.019 1.00 30.03 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1484 C VAL A 187 38.641 19.153 114.392 1.00 31.03 ATOM 1485 O VAL A 187 38.215 19.895 113.491 1.00 31.88 ATOM 1486 N LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1486 CB LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1489 CG LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.686 22.315 113.648 1.00 28.81 ATOM 1491 CD2 LEU A 188 42.686 22.315 113.648 1.00 28.81 ATOM 1493 O LEU A 188 42.686 22.315 113.815 1.00 31.22 ATOM 1493 O LEU A 188 42.579 18.333 114.587 1.00 35.33 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1499 O SER A 189 42.821 17.249 111.199 O SER A 189 ATOM 1499 O SER A 189 42.821 17.249 111.199 O 32.83 ATOM 1499 O SER A 189 44.448 19.120 11.143 1.00 27.94 ATOM 1500 N LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1501 CA LEU A 190 47.733 21.075 112.522 1.00 23.09 ATOM 1501 CA LEU A 190 47.733 21.075 112.522 1.00 23.09 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 23.09 ATOM 1505 CD2 LEU A 190 47.753 20.000 111.459 1.00 23.09 ATOM 1506 N HIS A 191 47.599 18.353 108.587 1.00 12.269 ATOM 1506 C LEU A 190 47.753 21.075 112.522 1.00 23.09 ATOM 1506 C LEU A 190 47.753 21.075 112.522 1.00 23.09 ATOM 1506 N HIS A 191 47.599 18.353 108.587 1.00 19.758 ATOM 1511 CG HIS A 191 47.599 18.353 108.587 1.00 19.76 ATOM 1512 CD2 HIS A 191 47.599 18.353 108.587 1.00 123.28 ATOM 1514 CG HIS A 191 48.646 17.210 107.804 1.00 23.28 ATOM 1515 CD2 HIS A 191 48.646 17.210 107.804 1.00 23.65 ATOM 1516 C HIS A 191 48.646 17.210 107.804 1.00 23.65 ATOM 1516 C HIS A 191 48.646 17.210 107.804 1.00 23.65 ATOM 1516 C HIS A 191 48.646 17.210 107.804 1.00 23.65 ATOM 1516 C HIS A 191 48.649 17.210 107.804 1.00 23.65 ATOM 1517 CA HIS A 191 48.649 17.210 10				36.478	18.877 115.574	1.00 32.00
ATOM 1481 CB VAL A 187 37.252 17.095 114.019 1.00 30.03 ATOM 1482 CG1 VAL A 187 38.510 16.488 113.405 1.00 27.77 ATOM 1483 CG2 VAL A 187 36.410 16.003 114.672 1.00 25.98 ATOM 1485 C VAL A 187 38.604 19.153 114.392 1.00 31.03 ATOM 1485 C VAL A 187 38.215 19.895 113.491 1.00 31.88 ATOM 1486 N LEU A 188 40.899 20.010 114.304 1.00 24.88 ATOM 1487 CA LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 42.823 21.565 114.963 1.00 27.04 ATOM 1490 CD1 LEU A 188 42.686 22.315 113.648 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.686 22.315 113.648 1.00 28.81 ATOM 1492 C LEU A 188 42.686 22.315 113.648 1.00 28.81 ATOM 1493 O LEU A 188 42.696 22.315 113.648 1.00 25.83 ATOM 1493 C LEU A 188 42.696 19.157 114.587 1.00 25.83 ATOM 1493 C SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1496 CE SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1499 O SER A 189 43.429 18.399 112.007 1.00 30.13 ATOM 1499 O SER A 189 43.837 16.474 110.558 1.00 27.94 ATOM 1499 O SER A 189 44.484 19.201 11.149 1.00 27.94 ATOM 1500 N LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1500 CD LEU A 190 47.955 2C.000 111.459 1.00 22.03 ATOM 1505 CD2 LEU A 190 47.955 2C.000 111.459 1.00 23.01 ATOM 1505 CD2 LEU A 190 47.955 2C.000 111.459 1.00 23.01 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 22.89 ATOM 1506 N HIS A 191 48.046 17.210 107.804 1.00 23.01 ATOM 1506 N HIS A 191 48.046 17.210 107.804 1.00 23.01 ATOM 1506 N HIS A 191 48.046 17.210 107.804 1.00 23.01 ATOM 1506 C LEU A 190 47.599 18.353 108.587 1.00 12.69 ATOM 1507 O LEU A 190 47.599 18.353 108.587 1.00 22.69 ATOM 1506 C LEU A 190 47.599 18.353 108.587 1.00 22.69 ATOM 1506 C LEU A 190 47.599 18.353 108.587 1.00 19.780 ATOM 1511 CG HIS A 191 48.046 17.210 107.804 1.00 23.01 ATOM 1515 CD HIS A 191 48.046 17.210 107.804 1.00 23.01 ATOM 1511 CG HIS A 191 48.646 17.210 107.804 1.00 23.06 ATOM 1511 CG HIS A 191 48.646 17.210 107.804 1.00 23.65 ATOM 1511 CG HIS A 191 48.646 17.11 10.06 CG HIS A 191 48.640 17.210 107.804 1.00 23.65 ATOM 1511					18,171 115,060	1.00 29.70
ATOM 1482 CG1 VAL À 187 ATOM 1483 CG2 VAL À 187 ATOM 1484 C ATOM 1484 C ATOM 1485 OG2 VAL À 187 ATOM 1486 N ATOM 1487 CA ATOM 1487 CA ATOM 1488 CB ATOM 1489 CG ATOM 1488 CB ATOM 1490 CD1 LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C ATOM 1492 C ATOM 1493 O ATOM 1494 N ATOM 1494 N ATOM 1495 CA ATOM 1495 CA ATOM 1496 CB ATOM 1497 CB ATOM 1498 CB ATOM 1499 CB ATOM 1499 CB ATOM 1499 CB ATOM 1499 CB ATOM 1490 CB ATOM 1490 CB ATOM 1490 CB ATOM 1491 CB ATOM 1490 CB ATOM 1500 CB ATOM 1501 CA ATOM 1500 CB ATOM 1501 CA ATOM 1501 CA ATOM 1501 CA ATOM 1500 CB ATOM 1501 CA ATOM 1501 CA ATOM 1500 CB ATOM 1501 CA ATOM 1500 CB ATOM 1501 CA ATO						1.00 30.03
ATOM 1483 CG2 VAL A 187 ATOM 1484 C VAL A 187 ATOM 1485 O VAL A 187 ATOM 1486 C VAL A 187 ATOM 1486 O VAL A 187 ATOM 1487 CA LEU A 188 ATOM 1487 CA LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1488 CB LEU A 188 ATOM 1489 CG LEU A 188 ATOM 1490 CD1 LEU A 188 ATOM 1491 CD2 LEU A 188 ATOM 1492 C LEU A 188 ATOM 1493 O LEU A 188 ATOM 1493 O LEU A 188 ATOM 1494 N SER A 189 ATOM 1495 CA SER A 189 ATOM 1496 CB SER A 189 ATOM 1497 OG SER A 189 ATOM 1499 O SER A 189 ATOM 1497 OG SER A 189 ATOM 1499 O SER A 189 ATOM 1497 OG SER A 189 ATOM 1499 O SER A 189 ATOM 1500 N LEU A 190 ATOM 1500 N LEU A 190 ATOM 1500 CA LEU A 190 ATOM 1501 CA LEU A 190 ATOM 1501 CA LEU A 190 ATOM 1502 CB LEU A 190 ATOM 1503 CG LEU A 190 ATOM 1504 CD1 LEU A 190 ATOM 1505 CD2 LEU A 190 ATOM 1506 C LEU A 190 ATOM 1507 O LEU A 190 ATOM 1507 O LEU A 190 ATOM 1508 C LEU A 190 ATOM 1509 CA HIS A 191 ATOM 1511 CG HIS A 191 ATOM 1512 CD2 HIS A 191 ATOM 1513 ND1 HIS A 191 ATOM 1514 CE1 HIS A 191 ATOM 1515 ND2 HIS A 191 ATOM 1515 ND2 HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 O HIS A 191 ATOM 1517 O HIS A 191 ATOM 1511 ND HIS A 191 ATOM 1511	MOTA				-	
ATOM 1484 C VAL A 187	MOTA	1482	CG1 VAL A 187			
ATOM 1484 C VAL A 187 38.604 19.153 114.392 1.00 31.03 ATOM 1485 O VAL A 187 38.215 19.895 113.491 1.00 31.88 ATOM 1486 N LEU A 188 39.850 19.157 114.857 1.00 24.88 ATOM 1487 CA LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1489 CG LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1491 CD2 LEU A 188 42.022 19.113 113.815 1.00 31.22 ATOM 1492 C LEU A 188 42.022 19.113 113.815 1.00 31.22 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1496 CE SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 44.484 19.891 11.253 1.00 22.14 ATOM 1499 O SER A 189 44.484 19.891 11.253 1.00 22.14 ATOM 1500 N LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1501 CA LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.730 18.210 109.872 1.00 23.69 ATOM 1506 C LEU A 190 47.730 18.210 109.872 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.730 18.210 109.872 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.730 18.210 109.872 1.00 23.69 ATOM 1505 CD2 LEU A 190 47.730 18.210 109.872 1.00 22.69 ATOM 1505 CD2 LEU A 190 47.555 20.000 111.455 1.00 16.55 ATOM 1506 C LEU A 190 47.559 18.353 108.587 1.00 19.22 ATOM 1501 CG HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1501 CG HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1501 CG HIS A 191 44.595 17.419 108.176 1.00 23.69 ATOM 1501 CG HIS A 191 44.595 17.419 108.176 1.00 23.65 ATOM 1515 NP2 HIS A 191 43.644 17.913 107.546 1.00 23.65 ATOM 1515 NP2 HIS A 191 43.644 17.913 107.546 1.00 23.65 ATOM 1515 NP2 HIS A 191 43.644 17.913 107.546 1.00 23.65 ATOM 1515 NP2 HIS A 191 43.644 17.913 107.546 1.00 23.65 ATOM 1515 NP2 HIS A 191 43.644 17.913 107.546 1.00 23.49 ATOM 1515 NP2 HIS A 191 43	MOTA	1483	CG2 VAL A 187			
ATOM 1485 O VAL A 187 38.215 19.895 113.491 1.00 31.88 ATOM 1486 N LEU A 188 40.899 20.010 114.304 1.00 26.92 ATOM 1488 CB LEU A 188 40.899 20.010 114.304 1.00 27.04 ATOM 1489 CG LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1490 CD1 LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1491 CD2 LEU A 188 43.330 22.485 116.068 1.00 28.81 ATOM 1492 C LEU A 188 42.022 19.113 113.648 1.00 18.53 ATOM 1493 O LEU A 188 42.022 19.113 113.815 1.00 31.22 ATOM 1493 O LEU A 188 42.579 18.333 114.587 1.00 25.83 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.13 ATOM 1497 OG SER A 189 43.829 18.399 112.007 1.00 30.13 ATOM 1499 O SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1499 O SER A 189 44.448 19.120 11'.143 1.00 27.94 ATOM 1499 O SER A 189 44.448 19.120 11'.143 1.00 27.94 ATOM 1500 N LEU A 190 45.728 18.877 11 .423 1.00 22.14 ATOM 1501 CA LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1502 CB LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1506 C LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1506 C LEU A 190 47.733 21.075 112.525 1.00 22.69 ATOM 1505 CD2 LEU A 190 47.730 18.210 109.872 1.00 22.69 ATOM 1505 CD2 LEU A 190 47.7416 17.141 110.465 1.00 23.01 ATOM 1505 CD2 LEU A 190 47.759 18.353 108.587 1.00 12.26 ATOM 1505 CD2 LEU A 190 47.416 17.141 110.465 1.00 23.28 ATOM 1505 CD LEU A 190 47.416 17.141 110.465 1.00 23.28 ATOM 1505 CD LEU A 190 47.599 18.353 108.587 1.00 19.22 ATOM 1505 CD HIS A 191 48.640 17.210 107.804 1.00 23.28 ATOM 1505 CD HIS A 191 48.591 14.595 17.419 108.176 1.00 23.76 ATOM 1510 CD HIS A 191 44.595 17.419 108.176 1.00 23.65 ATOM 1511 CD HIS A 191 44.595 17.419 108.176 1.00 23.65 ATOM 1515 NPL HIS A 191 43.823 17.746 106.017 1.00 23.65 ATOM 1515 NPL HIS A 191 43.823 17.746 106.017 1.00 23.65 ATOM 1515 NPL HIS A 191 43.823 17.746 106.017 1.00 23.65		1484	C VAL A 187	38.604		
ATOM 1486 N LEU A 188			O VAL A 187	38.215	19.895 113.491	
ATOM 1487 CA LEU A 188				39.850	19:157 114.857	1.00 24.88
ATOM 1488 CB LEU A 188 41.468 20.959 115.361 1.00 27.04 ATOM 1489 CG LEU A 188 42.823 21.565 114.963 1.00 25.15 ATOM 1490 CD1 LEU A 188 42.686 22.315 113.648 1.00 18.53 ATOM 1491 CD2 LEU A 188 43.330 22.485 116.068 1.00 28.81 ATOM 1492 C LEU A 188 42.022 19.113 113.815 1.00 31.22 ATOM 1493 O LEU A 188 42.579 18.333 114.587 1.00 25.83 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1496 CB SER A 189 43.837 16.474 110.588 1.00 32.98 ATOM 1498 C SER A 189 44.084 19.120 111.143 1.00 27.94 ATOM 1499 O SER A 189 44.084 19.891 11.253 1.00 22.14 ATOM 1500 N LEU A 190 45.728 18.877 11.423 1.00 24.80 ATOM 1501 CA LEU A 190 45.728 18.877 11.423 1.00 24.80 ATOM 1502 CB LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 23.01 ATOM 1506 C LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1506 C LEU A 190 47.730 18.210 109.872 1.00 23.01 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 23.01 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 23.01 ATOM 1507 O LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1508 N HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 15.58 ATOM 1512 CD2 HIS A 191 44.955 17.419 108.176 1.00 23.65 ATOM 1513 ND1 HIS A 191 44.955 17.449 106.038 1.00 17.71 ATOM 1515 CD2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 ND2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 ND2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 ND2 HIS A 191 43.644 17.913 107.545 1.00 23.65 ATOM 1516 C HIS A 191 43.644 17.913 107.545 1.00 23.65 ATOM 1517 O HIS A 191 48.570 17.620 106.434 1.00 23.69 ATOM 1517 O HIS A 191 48.849 18.761 106.016 17 1.00 23.49						1.00 26.92
ATOM 1488 CG LEU A 188						
ATOM 1490 CD1 LEU A 188	ATOM	1488				
ATOM 1491 CD2 LEU A 188	MOTA	1489				
ATOM 1491 CD2 LEU A 188	ATOM	1490	CD1 LEU A 188	42.686		
ATOM 1493 O LEU A 188 42.022 19.113 113.815 1.00 31.22 ATOM 1493 O LEU A 188 42.579 18.333 114.587 1.00 25.83 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 42.369 19.230 112.007 1.00 30.13 ATOM 1496 CB SER A 189 43.429 18.399 112.007 1.00 30.13 ATOM 1497 OG SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1498 C SER A 189 44.837 16.474 110.588 1.00 22.98 ATOM 1499 O SER A 189 44.084 19.120 11'.143 1.00 27.94 ATOM 1500 N LEU A 190 45.728 18.877 11 .423 1.00 24.80 ATOM 1501 CA LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1502 CB LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1504 CD1 LEU A 190 46.691 22.093 112.087 1.00 23.01 ATOM 1505 CD2 LEU A 190 46.691 22.093 112.087 1.00 28.11 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 28.11 ATOM 1507 O LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1511 CG HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1512 CD2 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CEI HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 ND2 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1516 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1517 C HIS A 191 48.8570 17.620 106.434 1.00 23.69 ATOM 1517 C HIS A 191 48.8419 18.761 106.017 1.00 23.89 ATOM 1517 C HIS A 191 48.4419 18.761 106.017 1.00 23.89		:491	CD2 LEU A 188	43.330		
ATOM 1493 O LEU A 188 42.579 18.333 114.587 1.00 25.83 ATOM 1494 N SER A 189 42.369 19.230 112.540 1.00 30.53 ATOM 1495 CA SER A 189 43.429 18.399 112.007 1.00 30.13 ATOM 1496 CB SER A 189 42.821 17.249 111.199 1.00 33.41 ATOM 1497 OG SER A 189 43.837 16.474 110.588 1.00 32.98 ATOM 1498 C SER A 189 44.448 19.120 111.143 1.00 27.94 ATOM 1499 O SER A 189 44.084 19.891 11.253 1.00 22.14 ATOM 1500 N LEU A 190 45.728 18.877 11 .423 1.00 24.80 ATOM 1501 CA LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1502 CB LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1505 CD2 LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1506 N HIS A 191 47.300 18.210 109.872 1.00 22.69 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1511 CG HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1512 CD2 HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 44.695 17.249 108.376 1.00 23.76 ATOM 1515 CD2 HIS A 191 44.695 17.249 108.376 1.00 23.76 ATOM 1515 ND2 HIS A 191 44.695 17.249 108.376 1.00 23.76 ATOM 1516 C HIS A 191 44.695 17.249 108.376 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 44.695 17.249 108.376 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 43.624 17.913 107.545 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 1.00 17.71 ATOM 1516 C HIS A 191 48.419 18.761 106.017 1.00 23.89 1.00 23.49				42.022	19.113 113.815	
ATOM 1494 N SER A 189				42 579	18.333 114.587	1.00 25.83
ATOM 1495 CA SER A 189					_	1.00 30.53
ATOM 1496 CB SER A 189						
ATOM 1497 OG SER A 189	ATOM	1495				
ATOM 1498 C SER A 189 44.448 19.120 111.143 1.00 27.94 ATOM 1499 O SER A 189 44.084 19.891 11.253 1.00 22.14 ATOM 1500 N LEU A 190 45.728 18.877 11.423 1.00 24.80 ATOM 1501 CA LEU A 190 46.805 19.438 110.614 1.00 22.23 ATOM 1502 CB LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1504 CD1 LEU A 190 49.070 21.780 112.740 1.00 23.01 ATOM 1505 CD2 LEU A 190 46.691 22.093 112.087 1.00 28.11 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1507 O LEU A 190 47.416 17.141 110.465 1.00 16.55 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1511 CG HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1512 CD2 HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 43.823 17.746 106.246 1.00 23.65 ATOM 1517 C HIS A 191 48.570 17.620 106.434 1.00 23.89 ATOM 1517 C HIS A 191 48.570 17.620 106.434 1.00 23.89 ATOM 1517 C HIS A 191 48.570 17.620 106.434 1.00 23.89 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49	ATCM	1496				
ATOM 1498 C SER A 189	MOTA	1497	OG SER A 189	43.837		
ATOM 1499 O SER A 189				44.448		1.00 27.94
ATOM 1500 N LEU A 190				44.084	19.891 11:.253	1.00 22.14
ATOM 1501 CA LEU A 190			5 3EK A 105			1.00 24.80
ATOM 1502 CB LEU A 190 47.955 20.000 111.459 1.00 23.69 ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1504 CD1 LEU A 190 49.070 21.780 112.740 1.00 23.01 ATOM 1505 CD2 LEU A 190 46.691 22.093 112.087 1.00 28.11 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1507 0 LEU A 190 47.416 17.141 110.465 1.00 16.55 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1510 CB HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 43.644 17.913 107.545 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49					19 438 110 614	
ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1504 CD1 LEU A 190 49.070 21.780 112.740 1.00 23.01 ATOM 1505 CD2 LEU A 190 46.691 22.093 112.087 1.00 28.11 ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1507 0 LEU A 190 47.416 17.141 110.465 1.00 16.55 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1510 CB HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49	MOTA				19,450 110.014	
ATOM 1503 CG LEU A 190 47.733 21.075 112.522 1.00 28.92 ATOM 1504 CD1 LEU A 190 49.070 21.780 112.740 1.00 23.01 ATOM 1505 CD2 LEU A 190 46.691 22.093 112.087 1.00 22.69 ATOM 1507 O LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 2510 CB HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1517 O HIS A 191 48.419 18.761 106.017 1.00 23.49 ATOM 1517 O HIS A 191 48.419 18.761 106.017 1.00 23.49	ATOM	1502			20.000 111.439	
ATOM 1504 CD1 LEU A 190		1503	CG LEU A 190		21.075 112.522	
ATOM 1505 CD2 LEU A 190				49.070	21.780 112.740	
ATOM 1506 C LEU A 190 47.300 18.210 109.872 1.00 22.69 ATOM 1507 0 LEU A 190 47.416 17.141 110.465 1.00 16.55 ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1511 CG HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49					22.093 112.087	1.00 28.11
ATOM 1507 O LEU A 190 47.416 17.141 110.465 1.00 16.55 ATOM 1508 N HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1509 CA HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1517 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49						1.00 22.69
ATOM 1508 N HIS A 191 47.599 18.353 108.587 1.00 19.22 ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 2510 CB HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49						
ATOM 1508 N HIS A 191 ATOM 1509 CA HIS A 191 ATOM 1510 CB HIS A 191 ATOM 1511 CG HIS A 191 ATOM 1512 CD2 HIS A 191 ATOM 1513 ND1 HIS A 191 ATOM 1514 CE1 HIS A 191 ATOM 1515 NE2 HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 C HIS A 191 ATOM 1518 A 191 ATOM 1519 ND1 HIS A 191 ATOM 1510 CE1 HIS A 191 ATOM 1511 NE2 HIS A 191 ATOM 1515 NE2 HIS A 191 ATOM 1516 C HIS A 191 ATOM 1517 C HIS A 191 ATOM 1518	MOTA				10 252 100 507	
ATOM 1509 CA HIS A 191 48.046 17.210 107.804 1.00 23.28 ATOM 1510 CB HIS A 191 46.870 16.242 107.650 1.00 15.58 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49	MOTA	1508			18.333 108.38/	
ATOM 1510 CB HIS A 191 46.870 16.242 107.650 1.00 15.36 ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49			CA HIS A 191			1.00 23.28
ATOM 1511 CG HIS A 191 45.591 16.915 107.256 1.00 24.16 ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.595 17.419 108.176 1.00 23.76 ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49			CB HIS A 191	46.870		1.00 15.58
ATOM 1512 CD2 HIS A 191 45.034 17.124 106.038 1.00 17.71 ATOM 1513 ND1 HIS A 191 44.695 17.419 108.176 1.00 23.76 ATOM 1515 NE2 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 C HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.89 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49			CG HTS = 191		16.915 107.256	1.00 24.16
ATOM 1512 CD2 HIS A 191 44.595 17.419 108.176 1.00 23.76 ATOM 1513 ND1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.89 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49					17.124 106.038	
ATOM 1514 CE1 HIS A 191 43.644 17.913 107.545 1.00 19.78 ATOM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.89 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.49			CDZ MID W 131		17 419 108 176	
ATOM 1515 CEI HIS A 191 43.823 17.746 106.246 1.00 27.87 ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATOM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.89 ATOM 1517 C HIS A 191 48.419 18.761 105.746 1.00 23.49	ATOM		ND1 HIS A 191		17 012 107 5/5	1 00 19 78
ATCM 1515 NE2 HIS A 191 43.823 17.746 106.246 1.00 27.67 ATCM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.65 ATCM 1517 C HIS A 191 48.419 18.761 106.017 1.00 23.89 ATCM 1517 C HIS A 191 48.419 18.761 105.746 1.00 23.49	ATOM	1514				1 00 27 27
ATOM 1516 C HIS A 191 48.570 17.620 106.434 1.00 23.63 ATOM 1517 O HIS A 191 48.419 18.761 106.017 1.00 23.89			NE2 HIS A 191	43.823	17.746 106.246	1.00 27.07
ATOM 1517 0 HIS A 191 48.419 18.761 106.017 1.00 23.49			C HIS A 191	48.570	17.620 106.434	
49 209 16 681 105.746 1.00 23.49				48.419	18.761 106.017	1.00 23.89
ATOM 1910 N GEN A 192						1.00 23.49
	ATOM	_310	,4 <u>1111</u> 2			

: mon	1519	CA GLN A 192		49.718	16.950		1.00 20.55
ATOM	1520	CB GLN A 192		50.474	15.738	103.864	1.00 23.63
ATOM	1521			51.528	15.181	104.797	1.00 24.07
MOTA	-	CG GLN A 192 CD GLN A 192		52.110	13.876	104.293	1.00 26.90
MOTA	1522	OE1 GLN A 192		52.986	13.860	103.421	1.00 20.21
ATOM	1523	NE2 GLN A 192		51.605	12.765	104.828	1.00 23.52
MOTA	1524			48.478	17.174	103.570	1.00 21.41
MOTA	1525	C GLN A 192		47.478	16.466	103.726	1.00 20.15
MOTA	1526	O GLN A 192		48.528	18.167	102.692	1.00 24.36
MOTA	1527	N SER A 193		47.397	18.448	101.821	1.00 23.98
MOTA	1528	CA SER A 193		47.750	19.537	100.820	1.00 24.60
MOTA	1529	CB SER A 193	-	46.729	19.660	99.861	1.00 25.83
MOTA	1530	OG SER A 193		46.985		101.045	1.00 23.74
ATOM	1531	C SER A 193		47.829		100.506	1.00 19.80
MOTA	1532	O SER A 193		45.674		100.953	1.00 24.85
ATOM	1533	N PRO A 194		44.561	17.719	101.507	1.00 25.08
MOTA	1534	CD PRO A 194		45.151		100.235	1.00 29.25
MOTA	1535	CA PRO A 194		43.641	15.901	100.444	1.00 30.51
MOTA	1536	CB PRO A 194 CG PRC A 194		43.554		101.758	1.00 30.21
MOTA	1537			45.527	15.825	98.756	1.00 30.75
MOTA	1538	C PRO A 194		45.420	14.830	98.041	1.00 30.04
ATOM	1539	O PRO A 194		45.967	16.991	98.298	1.00 26.28
MOTA	1540	N GLU A 195		46.343	17.127	96.898	1.00 31.11
MOTA	1541	CA GLU A 195		46.738	18.570	96.571	1.00 29.52
MOTA	1542	CB GLU A 195		45.680	19.600	96.933	1.00 38.32
MOTA	1543	CG GLU A 195		45.976	20.972	96.352	1.00 44.15
MOTA	1544	CD GLU A 195		47.139	21.425	96.434	1.00 44.23
MOTA	1545	OE1 GLU A 195		45.037	21.605	95.825	1.00 45.06
MOTA	1546	OE2 GLU A 195		47.499	16.193	96.552	1.00 30.81
MOTA	1547	C GLU A 195		47.582	15.705		1.00 37.17
ATOM	1548	O GLU A 195		48.377	15.922		1.00 25.01
MOTA	1549	N TYR A 196		49.517	15.053		1.00 23.43
MOTA	1550	CA TYR A 196		50.810	15.881		1.00 26.67
MOTA	1551	CB TYR A 196		51.255	16.424		1.00 26.78
MOTA	1552	CG TYR A 196		51.957	15.625		1.00 26.08
ATOM	1553	CD1 TYR A 196		52.338	16.110		1.00 26.77
MOTA	1554	CE1 TYR A 196		50.944	17.731	98.958	1.00 27.55
ATOM	1555	CD2 TYR A 196 CE2 TYR A 196		51.320	18.226		1.00 25.95
MOTA	1556			52.012	17.409		1.00 24.78
MOTA	1557			52.356	17.879	102.345	1.00 25.50
ATOM	1558			49.670	13.906	98.229	1.00 27.05
ATOM	1559			50.585	13.088	98.096	1.00 24.02
MOTA	1560			48.785	13.822		1.00 22.10
ATOM	1561	N ALA A 197 CA ALA A 197		48.928	12.760	100.199	1.00 24.90
MOTA	1562	CB ALA A 197		49.627	13.307	101.437	1.00 27.83
ATOM	1563 1534	C ALA A 197		47.644	12.069	100.608	1.00 26.20
ATOM		107		46.553	12.617	7 100.484	1.00 22.82
MOTA	11 65 15 36	N PHE A 198		47.795	10.849	101.102	1.00 31.74
ATCM	1567	CA PHE A 198		46.663	10.072	2 101.580	1.00 28.74
ATOM	1568			47.130	8.693	1 102.036	1.00 30.66
ATOM	1569			46.009	7.766	5 102.399	1.00 29.61
ATOM	1570			45.496	6.879	9 101.463	1.00 28.76
ATOM				45.426	7.82	2 103.657	1.00 28.43
MOTA	1571			44.415	6.05	7 101.773	1.00 35.72
ATOM	1572			44.340		4 103.970	1.00 34.62
ATOM	1573			43.837	6.12	1 103.029	
ATOM	1574			46.121	10.81	4 102.802	
MOTA	1575			46.892	11.34	7 103.596	1.00 25.72
ATOM	15.76			44.792	10.90	5 102.941	
ATOM	1577			44.100	11.49	9 104.099	
ATOM	1578			43.313	10.36	4 102.008	
ATCM	1579			42.550	10.31	2 102.858	
ATOM	1580			42.665	11.61	2 103.592	
ATOM	1581	100		43.773	11.47	6 100.965	
MOTA	1582			44.052		1 101.280	
MOTA.	1583			43.441			1.00 33.64
ATOM	1584	,, A 200		_			

ATOM	1585	CA	PHE A 200		43.418	12.179	98.718	1.00 28.12
			PHE A 200		43.927	11.579	97.411	1.00 25.69
MOTA	1586	CB	_					
MOTA	1587	CG	PHE A 200		45.226	10.833	97.561	
MOTA	1588	CD1	PHE A 200		45.239	9.510	97.995	1.00 29.79
					46.439	11.461	97.302	1.00 24.38
Mota	1589	CD2	PHE A 200					
MOTA	1590	CE1	PHE A 200		46.444	8.820	98.168	1.00 29.45
	1591	CE2	PHE A 200		47.651	10.782	97.473	1.00 31.41
MOTA							97.906	1.00 29.64
MOTA	1592	cz	PHE A 200		47.653	9.458		
MOTA	1593	С	PHE A 200		42.042	12.795	98.518	1.00 26.15
•	1594		PHE A 200		41.935	13.889	97.986	1.00 27.96
ATOM							98.979	1.00 28.52
MOTA	1595	N	GLU A 201		41.002	12.101		
ATOM	1596	CA	GLU A 201		39.614	12.534	98.806	1.00 35.04
	1597	CB	GLU A 201		38.695	11.316	98.810	1.00 33.61
ATOM							97.838	1.00 37.80
ATOM	1598	CG	GLU A 201		39.087	10.240		
MOTA	1599	CD	GLU A 201		38.222	9.016	97.997	1.00 43.48
ATOM	1600	OE1	GLU A 201		36.992	9.142	97.825	1.00 40.96
					38.772	7.937	98.298	1.00 44.17
ATOM	1601	OE2	GLU A 201					
ATOM	1602	С	GLU A 201		39.077	13.516	99.837	1.00 36.30
ATOM	1603	0	GLU A 201		38.087	14.206	99.592	1.00 36.47
			LYS A 202		39.693	13.552	101.007	1.00 34.63
MOTA	1604	N						1.00 34.09
ATOM	1605	CA	LYS A 202		39.229	14.460	102.030	
ATOM	1606	CB	LYS A 202		38.294	13.729	102.992	1.00 40.88
	1607	ÇG	LYS A 202		37.011	13.318	102.292	1.00 43.17
MOTA							103.230	1.00 47.39
ATOM	1608	CD	LYS A 202		35.935	12.854		
ATOM	1609	CE	LYS A 202		34.628	12.663	102.469	1.00 47.74
ATOM	1610	NZ	LYS A 202		33.504	12.290	103.378	1.00 53.56
			LYS A 203		40.382	15.101	102.753	1.00 36.27
ATOM	1611	С	-					1.00 28.06
ATOM	1612	0	LYS A 202		41.520	14.666		
MOTA	1613	N	GLY A 203		40.080	16.152	103.509	1.00 31.91
MOTA	1614	CA	GLY A 203		41.115	16.862	104.228	1.00 33.75
					41.288	18.288	103.729	1.00 30.54
ATOM	1615	С	GLY A 203					
ATOM	1616	0	GLY A 203		42.174	18.996	104.200	1.00 28.04
ATOM	1617	N	PHE A 204		40.458	18.713	102.778	1.00 29.93
		CA	PHE A 204		40.557	20:077	102.260	1.00 35.76
ATOM	1618					20.217	100.901	1.00 31.41
ATOM	1619	CB	PHE A 204		39.863			
ATOM	1620	CG	PHE A 204		40.498	19.416	99.803	1.00 31.06
ATOM	1621	CD1	PHE A 204		40.169	18.075	99.618	1.00 35.66
			PHE A 204		41.431	20.002	98.955	1.00 30.79
ATOM	1622	CD2					98.597	1.00 35.20
ATOM	1623	CE1	PHE A 204		40.761	17.329		
ATOM	1624	CE2	PHE A 204		42.033	19.267	97.931	1.00 36.08
ATOM	1625	CZ	PHE A 204		41.697	17.928	97.751	1.00 36.54
					39.967	21.103	103.231	1.00 37.30
atom	1626	C	PHE A 204				104.040	1.00 33.56
ATOM	1627	0	PHE A 204		39.088	20.786		
ATOM	1628	N	LEU A 205	5	40.451	22.337	103.128	1.00 38.52
ATOM	1629	CA	LEU A 209	;	40.012	23.427	103.993	1.00 36.81
			LEU A 20!		40.801	24.695	103.659	1.00 34.73
ATOM	1630	CB	LEU A 20.					1.00 40.98
ATOM	1631	CG	LEU A 20		40.496	25.954	104.479	
ATOM	1632	CD1	LEU A 20!	5	40.690	25.677	105.965	1.00 39.87
	1633		LEU A 205		41.415	27.079	104.032	1.00 39.94
ATOM					38.520	23.728		1.00 36.58
ATOM	1634	С	LEU A 20					
ATOM	1635	0	LEU A 20!	5	37.931	24.178		1.00 40.98
ATOM	1636	N	GLU A 200	5	37.909	23.477	102.774	1.00 36.07
					36.486	23.748		1.00 36.30
ATOM	1637	CA	GLU A 200			23.597		1.00 39.98
ATOM	1638	СЗ	GLU A 20		36.107			
ATOM	1639	CG	GLU A 200	5	36.890	24.473		1.00 48.04
ATOM	1640	CD	GLU A 20		38.307	23.980	99.868	1.00 51.87
					39.146	23.993		1.00 50.32
ATOM	1641		GLU A 20			22.333		1.00 56.69
ATOM	1642	OE2	GLU A 20	5	38.581	23.569		
ATOM	1643	С	GLU A 20		` 35.572 [`]	22.852		1.00 33.85
		3	GLU A 20		34.433	23.213		1.00 26.22
ATOM	1644		GPO W 70	-	36.071	21.679		1.00 31.68
ATOM	1645	:V	GLU A 20					1.00 31.65
ATCM	1646	CA	GLU A 20		35.297	20.726		1.00 31.03
ATOM	1647	CB	GLU A 20		36.000	19.369		1.00 34.15
	1648	CG	GLU A-20	7	36.044	18.741	103.179	1.00 33.80
ATOM			GEO 7-20	7	37.182	17.751		
ATOM	1649	CD	GLU A 20	<u>'</u>				
ATOM	1650	OE1	GLU A 20	/	37.487	17.025	, 100.335	1.00 33.22

3 mo)4	1651	OE2 GLU A 207	37.760	17.688 10	01.916	1.00 35.48
ATOM	1652	C GLU A 207	35.182		06.033	1.00 35.06
ATOM	1653	O GLU A 207	36.009		06.887	1.00 34.16
MOTA	1654	N ILE À 208	34.150		06.302	1.00 35.99
MOTA	1655	CA ILE A 208	33.96		07.634	1.00 38.96
MOTA	1656	CB ILE A 208	33.73		07.529	1.00 42.74
MOTA		CG2 ILE A 208	33.71		08.914	1.00 48.29
MOTA	1657	CG2 ILE A 208	34.84		06.700	1.00 40.34
MOTA	1658	CD1 ILE A 208	36.20		07.335	1.00 46.23
MOTA	1659		32.82		08.452	1.00 38.32
MOTA	1660	C ILE A 208	32.55		09.571	1.00 40.08
ATOM	1661	O ILE A 208	32.14		07.901	1.00 34.36
ATOM	1662	N GLY A 209	31.04		08.620	1.00 33.32
MOTA	1663	CA GLY A 209	29.69		07.993	1.00 37.87
MOTA	1664	C GLY A 209	29.57		07.173	1.00 40.56
MOTA	1665	O GLY A 209 N GLU A 210	28.67		08.380	1.00 37.38
MOTA	1666	`	27.33			1.00 42.34
ATOM	1667		27.00		06.823	1.00 42.73
ATOM	1668		26.86		07.460	1.00 47.38
MOTA	1669		26.63		06.443	1.00 52.68
MOTA	1670	CD GLU A 210 OE1 GLU A 210	26.38		06.860	1.00 50.59
MOTA	1671	OE2 GLU A 210	26.71		05.226	1.00 53.78
MOTA	1672		26.28		08.938	1.00 42.90
MOTA	1673		26.51			1.00 45.94
MOTA	1674	O GLU A 210 N GLY A 211	25.13		108.654	1.00 43.16
MOTA	1675		24.06		109.642	1.00 43.98
MOTA	1676		24.51		110.911	1.00 45.01
MOTA	1677		25.18		110.858	1.00 48.15
MOTA	1678		24.14		112.059	1.00 41.63
MOTA	1679		24.52		113.328	1.00 45.07
MOTA	1680		23.91		114.490	1.00 46.59
MOTA	1681		22.38		114.462	1.00 55.31
MOTA	1682	CG LYS A 212 CD LYS A 212	21.65			1.00 57.42
MOTA	1683	CE LYS A 212		9 22.696	113.151	1.00 59.71
MOTA	1684 1685	NZ LYS A 212	21.0	1 24.017	113.178	1.00 57.43
MOTA	1686	C LYS A 212	26.04		113.469	1.00 42.08
ATOM	1687	O LYS A 212	26.59	8 22.326	114.207	1.00 40.03
MOTA MOTA	1688	N GLY A 213	26.7		112.751	1.00 39.51
ATOM	1689	CA GLY A 213	28.1	53 20.538	112.817	1.00 40.11
ATOM	1690	C GLY A 213	28.8	38 21.519	111.916	1.00 38.25
ATOM	1691	O GLY A 213	30.1	22 21.575	111.913	1.00 34.70
ATOM	1692	N LYS A 214	28.1		111:143	1.00 37.31
ATOM	1693	CA LYS A 214	28.7		110.250	1.00 39.58
ATOM	1694	CB LYS A 214	27.6		109.463	1.00 44.69
ATOM	1695	CG LYS A 214	28.1	89 25.030	108.461	1.00 44.53
ATOM	1696	CD LY! A 214	27.0		107.720	1.00 47.71
MOTA	1697	CE LY. A 214	27.5		106.754	1.00 52.94
MOTA	1698	NZ LYL A 214	28.4		105.717	1.00 57.45
ATOM	1699	C LYS A 214	29.5		111.085	1.00 40.16 1.00 37.92
ATOM	1700		29.0		111.933	1.00 37.32
ATOM	1701	N GLY A 215	30.8		110.846	1.00 35.03
MOTA	1702	CA GLY A 215	31.7		111.593	1.00 33.03
MOTA	1703	C GLY A 215	32.4		112.709	1.00 33.76
MOTA	1704	O GLY A 215	33.2		113.454	1.00 34.61
MOTA	1705	N TYR A 216	32.1		112.837	
ATOM	1706	CA TYR A 216	32.8		113.885	1.00 35.00
ATOM	1707		31.7		114.753	
ATOM	1708	CG TYR A 216	30.9		115.547	
MOTA	1709	CD1 TYR A 216	29.9		114.925 115.641	
ATOM	1710	CE1 TYR A 216	29.2		116.910	
MOTA	1711	CD2 TYR A 216	31.1	22.869	117.634	
ATOM	1712		30.4	137 · 23.834	116.994	
ATOM	1713		29.5 28.8	05 24.612	117.708	
MOTA	1714			010 43.300 177 71 201	113.401	
ATOM	1715		33.8			
MOTA	1716	O TYR A 216	34.2	263 20.462	****	1.00 52.5.

					24 242	01 500	110 170	1.00 29.90
ATOM	1717	N	ASN A 2	17	34.343		112.170	
ATOM	1718	CA	ASN A 2	17	35.398		111.606	1.00 30.02
ATOM	1719	CE	ASN A 2	17	34.833	19.727	110.615	1.00 26.46
ATOM	1720	CG	ASN A 2		35.897	18.764	110.105	1.00 30.13
					36.558		109.097	1.00 29.80
MOTA	1721	OD1					110.831	1.00 19.92
MOTA	1722	ND2	ASN A 2		36.094			
ATOM	1723	С	ASN A 2	17	36.378	21.686	110.915	1.00 30.23
ATOM	1724	0	ASN A 2	17	35.983	22.502	110.080	1.00 27.88
ATOM	1725	N	LEU A 2	18	37.655	21.577	111.271	1.00 29.45
	1726		LEU A 2		38.670		110.698	1.00 28.76
ATOM					39.160		111.753	1.00 29.02
MOTA	1727	CB	LEU A 2					1.00 34.69
MOTA	1728	CG	LEU A 2		39.513		111.307	
MOTA	1729	CD1	LEU A 2	18	40.432		112.367	1.00 32.93
ATOM	1730	CD2	LEU A 2	18	40.197	24.873	109.954	1.00 30.69
ATOM	1731	C .	LEU A 2	18	39.870	21.657	110.207	1.00 26.65
	1732	ō		18	40.527		110.999	1.00 25.25
ATOM					40.151		108.909	1.00 25.21
MOTA	1733	N	ASN A 2				108.294	1.00 21.91
MOTA	1734	CA	ASN A 2		41.287			•
MOTA	1735	CB	ASN A 2		40.875		107.018	1.00 23.69
ATOM	1736	ÇG	ASN A 2	19	39.972	19.144	107.298	1.00 27.88
ATOM	1737	OD1	ASN A 2	19	40.153		108.289	1.00 29.28
ATOM	1738		ASN A 2		39.018	18.900	106.407	1.00 24.48
	1739	C	ASN A 2		42.355		107.906	1.00 23.46
ATOM			ASN A 2		42.059	23.073	107.259	1.00 28.17
ATOM	1740	0					108.287	1.00 23.90
MOTA	1741	N	ILE A 2		43.595	21.804		
MOTA	1742	CA	ILE A 2		44.702	22.684		· · · · · · · · · · · · · · · · · · ·
ATOM	1743	CB	ILE A 2	20	45.468	23.131		1.00 28.73
ATOM	1744	CG2	ILE A 2	20	46.601	24.078	108.831	1.00 26.01
ATOM	1745	CG1	ILE A 2	20	44.502	23.783	110.212	1.00 26.36
ATOM	1746	CD1			43.771	25.004	109.688	1.00 25.74
		C	ILE A 2		45.669	21.929		1.00 25.29
ATOM	1747				46.631	21 315	107.477	1.00 20.44
MOTA	1748	0	ILE A 2					1.00 26.34
ATOM	1749	N	PRO A 2		45.396	21.924	. 105.703	
MOTA	1750	CD	PRO A 2	21	44.234		104.999	1.00 28.22
ATOM	1751	CA	PRO A 2	21	46.271		104.747	1.00 26.92
ATOM	1752	CB	PRO A 2	21	45.454	21.279	103.457	1.00 27.81
MOTA	1753	CG	PRO A 2		44.774	22.622	103.582	1.00 30.62
	1754	c	PRO A 2		47.595		104.625	1.00 27.45
MOTA			PRO A 2		47.603	23.199		1.00 31.21
MOTA	1755	0			48.704		104.703	1.00 26.01
MOTA	1756	N	LEU A 2				104.703	1.00 26.41
MOTA	1757	CA	LEU A 2		50.038			
ATOM	1758	CB	LEU A 2		50.726		105.997	1.00 26.12
MOTA	1759	CG	LEU A 2	22	49.960	22.322		1.00 27.67
MOTA	1760	CD1	LEU A 2	22	50.531	21.899		1.00 30.97
MOTA	1761	CD2	_		50.024	23.839	106.985	1.00 31.59
ATOM	1762	c	LEU A 2		50.911	21,286	103.504	1.00 28.97
			LEU A 2		50.784	20.128	103.117	1.00 27.95
MOTA	1763	0	DEU A 2	22	51.821	22 116	102.964	1.00 31.52
ATOM	1764	N	PRO A 2				103.358	1.00 29.08
ATOM	1765	CD	PRO A 2		52.059			
ATCM	1766	CÀ	PRO A 2	23	52.727		101.865	1.00 29.93
ATOM	1767	CB	PRO A 2	23	53.265	23.109	101.428	1.00 29.16
ATOM	1768	CG	PRO A 2		53.458		102.779	1.00 25.86
ATOM	1769	c	PRO A 2		53.862	20.782	102.206	1.00 33.62
	1770	Ö	PRO A 2		54.179		103.376	1.00 26.55
ATOM			PRO A 2	23	54.479		101.153	1.00 34.00
MOTA	1771	N	LYS A 2	24			101.264	1.00 32.88
MOTA	1772	CA	LYS A 2	24	55.595			
ATOM	1773	CB	LYS A 2		55.938	18.767		1.00 36.31
ATOM	1774	CG	LYS A 2		54.761	18.204		1.00 39.37
ATOM	1775	CD	LYS A 2		55.150	17.998	97.658	1.00 45.23
	1776	CE	LYS A 2		53.989	17.478	96.835	1.00 47.90
ATOM	1777	NZ	LYS A 2	224	54.331	17.441		1.00 46.60
ATCM			LYS A 2		56.317	20 054	101.798	1.00 29.43
ATOM	1778	C				20.034	101.640	1.00 24.10
ATOM	1779	0	LYS A 2	24	56.933	21.2/0	102.040	1.00 25.00
MOTA	1780	N	GLY A 2	325	57.735	19.305	102.403	1.00 25.00
ATCM	1781	CA	GLY A 2	225	58.947	19.896	102.942	1.00 26.20
ATOM	1782	С	GLY A 2	225	58.727	20.792	2 104.154	1.00 29.44
ALON		-	'					

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1837 CA LEU A 232 1838 CB LEU A 232 1839 CG LEU A 232 1840 CD1 LEU A 232 1841 CD2 LEU A 232 1842 C LEU A 232 1843 O LEU A 232	59.610 21.562 104.528 1.00 29.09 57.560 20.679 104.777 1.00 24.26 57.212 21.488 105.951 1.00 23.23 55.930 20.925 106.579 1.00 23.23 55.772 21.757 107.611 1.00 28.28 54.036 20.933 108.226 1.00 27.49 58.902 20.450 107.299 1.00 24.79 58.664 22.674 107.548 1.00 23.94 60.751 23.823 108.259 1.00 24.89 60.751 23.823 108.334 1.00 24.89 60.751 23.823 108.334 1.00 21.65 59.88 25.632 109.335 1.00 23.16 59.976 22.957 109.960 1.00 23.16 57.873 23.206 110.065 1.00 23.16 57.873 23.206 110.055 1.00 25.80
atom atom atom	1840 CD1 LEU A 232 1841 CD2 LEU A 232 1842 C LEU A 232 1843 O LEU A 232	57.440 24.783 117.162 1.00 27.32 55.268 23.540 117.328 1.00 27.87 53.371 26.542 114.800 1.00 26.98 52.449 26.866 115.544 1.00 23.34
ATOM ATOM ATOM ATOM ATOM	1844 N PHE A 233 1845 CA PHE A 233 1846 CB PHE A 233 1847 CG PHE A 233	53.694 27.232 113.708 1.00 28.13 52.950 28.426 113.312 1.00 28.13 53.542 29.029 112.029 1.00 30.77 52.719 30.151 111.448 1.00 29.65 52.803 31.441 111.962 1.00 32.80

145/263

ATOM	1849	CD2	PHE A	223	51.825	29.903	110.412	1.00 31.59
							111.452	1.00 33.90
ATOM	1850	CEI	PHE Y	233	52.008			
ATOM	1851	CE2	PHE A	233	51.022	30.924	109.895	1.00 32.47
	1852	CZ	PHE A	223	51.114	32.208	110.415	1.00 32.50
ATOM					51.510		113.031	1.00 31.62
MOTA	1853	C	PHE A					
ATOM	1854	0	PHE A	233	50.553		113.532	1.00 25.88
ATOM	1855	N	ALA A	234	51.370	26.955	112.215	1.00 28.12
			ALA A		50.056	26.436	111.853	1.00 25.68
MOTA	1856	CA						1.00 20.08
ATOM	1857	CB.	ALA A		50.195	25.279	110.864	
ATOM	1858	C	ALA A	234	49.304	25.969	113.089	1.00 25.17
	1859	ō	ALA A		48.114	26.228	113.234	1.00 25.21
MOTA						25.285		1.00 28.18
MOTA	1860	N	LEU A		50.002			
MOTA	1861	CA	LEU A	235	49.367	24.781	115.195	1.00 33.70
ATOM	1862	CB	LEU A	235	50.356	23.964	116.026	1.00 32.70
					49.772	22.788	116.820	1.00 36.89
MOTA	1863	CG	LEU A					1.00 31.37
MOTA	1864		LEU A		50.634	22.545		
ATOM	1865	CD2	LEU A	235	48.344	23.072	117.231	1.00 31.47
	1866	С	LEU A		48.841	25.925	116.062	1.00 33.38
MOTA					47.673	25.926	116.455	1.00 28.13
MOTA	1867	0	LEU A					
MOTA	1868	N	GLU A		49.710	26.888	116.362	1.00 34.02
MOTA	1869	CA	GLU A	236	49.336	28.026	117.199	1.00 37.30
	1870	CB	GLU A		50.528	28.972	117.400	1.00 41.51
MOTA					51.675	28.356	118.188	1.00 49.54
MOTA	1871	CG	GLU A					
ATOM	1872	CD	GLU A	236	52.811	29.334	118.451	1.00 55.02
ATOM	1873	OE1	GLU A	236	53.781	28.947	119.140	1.00 56.19
	1874	OE2		236	52.735	30.486	117.968	1.00 54.84
MOTA	- :							1.00 33.98
ATOM	1875	C	GLU A		48.163	28.803	116.638	
MOTA	1876	0	GLU A	236	47.211	29.098	117.362	1.00 37.01
ATOM	1877	N	LYS A	237	48.223	29.137	115.354	1.00 33.94
			LYS A		47.140	29.888	114.726	1.00 33.10
MOTA	1878	CA						
ATOM	1879	CB	LYS A		47.505	30.244	113.281	1.00 36.08
MOTA	1880	CG	LYS A	237	48.695	31.186	113.165	1.00 33.62
	1881	CD	LYS A	237	48.395	32.508	113.856	1.00 37.99
MOTA					49.569		113.762	1.00 45.24
atom	1882	CE	LYS A					
ATOM	1883	NZ	LYS A		49.285	34.737		1.00 43.49
ATOM	1884	С	LYS A	237	45.820	29.128	114.751	1.00 31.40
	1885	õ	LYS A		44.793	29.680	115.131	1.00 31.67
					45.841	27.861		1.00 28.72
ATOM	1886	N	SER A					
ATOM	1887	CA	SER A	238	44.610	27.080		1.00 31.74
MOTA	1888	CB	SER A	238	44.834	25.720	113.660	1.00 28.90
ATOM	1889	OG	SER A		45.760	24.924	114.372	1.00 25.18
							115.740	1.00 33.23
ATOM	1890	С	SER A		44.041			
MOTA	1891	0	SER A	238	42.823	26.875	115.916	1.00 34.79
ATOM	1892	N	LEU A	239	44.907	26.742	116.741	1.00 35.27
			LEU A		44.413	26.587	118.108	1.00 37.57
MOTA	1893	CA					119.090	1.00 38.58
MOTA	1894	CB	LEU A		45.554	20.307	119.090	
MOTA	1895	CG	LEU A	239	46.176		119.038	1.00 39.74
ATOM	1896	CD1	LEU A	239	47.276	24.797	120.075	1.00 35.82
			LEU A		45.109		119.301	1.00 34.93
ATOM	1897						118.521	1.00 39.09
MOTA	1898	С	LEU A		43.670			
ATOM	1899	0	LEU A	239	42.628		119.174	1.00 35.50
	1900	N	GLU A		44.202	29.007	118.131	1.00 39.27
MOTA					43.561		118.450	1.00 40.15
ATOM	1901	CA	GLU A					
ATOM	. 1902	CB	GLU A	240	44.366		117.883	1.00 40.42
ATOM	1903	CG	GLU A		45.661		118.602	1.00 43.91
		CD	GLU A		46.407		117.942	1.00 49.31
MOTA	1904					33 025	117.665	1.00 49.00
MOTA	1905	OE1			45.772	33.363	117 705	
ATOM	1906	OE2	GLU A	240	47.624	32.745	117.705	1.00 54.05
ATOM	1907	c	GLU A		42.165	30.312	117.849	1.00 39.58
					41.224	30 822	118.455	1.00 40.99
ATOM	1908	0	GLU A			20.022	116.645	1.00 35.70
ATCM	1909	N	ILE A		42.039	9./64	1 110.045	
MOTA	1910	CA	ILE A	241	40.754	29.726	115.964	1.00 38.23
	1911	CB	ILE A		40.904	29.150	114.546	1.00 37.55
ATOM					39.535	20 005	113.895	1.00 37.30
atom	1912	CG2				29.003	113 774	1.00 38.36
· ATOM	1913	CG1	ILE A	241	41.832	30.048	113.724	
ATOM	1914	CD1	ILE A	241	42.106	29.541	112.320	1.00 36.15

ATOM ATOM AOTA	1915 C ILE A 241 1916 C ILE A 241 1917 N VAL A 242	39.751 28.881 116.737 1.00 37.31 38.591 29.264 116.884 1.00 37.91 40.203 27.732 117.231 1.00 37.07 39.336 26.832 117.981 1.00 38.35
ATOM	1918 CA VAL A 242	33.550 20.655 20.650 1 00 37 50
MOTA	1919 CB VAL A 242	40.025 25.477 118.250 1.00 37.56 39.120 24.581 119.078 1.00 31.91
MOTA	1920 CG1 VAL A 242	40.364 24.803 116.928 1.00 39.21
MOTA	1921 CG2 VAL A 242	38.930 27.451 119.305 1.00 40.40
ATOM	1922 C VAL A 242	37.759 27.422 119.675 1.00 38.19
MOTA	1923 O VAL A 242	39.905 28.008 120.014 1.00 45.47
ATOM	1924 N LYS A 243	39.661 28.654 121.301 1.00 48.74
MOTA	1925 CA LYS A 243 ·	40.945 29.319 121.801 1.00 51.01
MOTA	1926 CB LYS A 243	A1 853 28 426 122.614 1.00 56.09
MOTA	1927 CG LYS A 243 1928 CD LYS A 243	41,250 28,149 123,991 1.00 57.39
ATOM		41.054 29.436 124.783 1.00 59.53
MOTA	1929 CE LYS A 243 1930 NZ LYS A 243	40.448 29.193 126.127 1.00 57.91
MOTA	1931 C LYS A 243	38.559 29.705 121.260 1.00 51.67
MOTA MOTA	1932 O LYS A 243	37.815 29.871 122.226 1.00 52.84 38.451 30.410 120.140 1.00 53.77
MOTA	1933 N GLU A 244	30.431 30.411
ATOM	1934 CA GLU A 244	
ATOM	1935 CB GLU A 244	37.334 32.65
MOTA	1936 CG GLU A 244	37.000
ATOM	1937 CD GLU A 244	37.002 34.721
MOTA	1938 CE1 GLU A 244	38.746 35.181 118.053 1.00 70.36 36.879 35.031 116.900 1.00 67.09
MOTA	1939 OE2 GLU A 244	26 051 31 025 119.626 1.00 52.65
MOTA	1940 C GLU A 244	35.127 31.838 119.606 1.00 55.59
MOTA	1941 C GLU A 244 1942 N VAL A 245	35 869 29 745 119.332 1.00 50.57
MOTA		34.546 29.269 118.947 1.00 45.75
MOTA		34.475 29.081 117.409 1.00 46.91
MOTA	1944 CB VAL A 245 1945 CG1 VAL A 245	33.085 28.634 116.986 1.00 52.62
MOTA MOTA	1946 CG2 VAL A 245	34.825 30.389 116.716 1.00 48.34
MOTA	1947 C VAL A 245	34.130 27.969 119.642 1.00 42.67 33.021 27.480 119.445 1.00 43.61
MOTA	1948 O VAL A 245	33.021 2.100 40 07
ATOM	1949 N PHE A 246	33.001
ATOM	1950 CA PHE A 246	34.002 20.110 20.00 37.00
MOTA	1951 CB PHE A 246	34 450 23 685 120.604 1.00 33.22
MOTA	1952 CG PHE A 246	33 111 23 467 120 302 1.00 33.93
ATOM	1953 CD1 PHE A 246 1954 CD2 PHE A 246	35 168 22 674 121.234 1.00 32.13
ATOM		32.493 22.260 120.621 1.00 37.75
MOTA	1955 CE1 PHE A 246 1956 CE2 PHE A 246	34.561 21.459 121.561 1.00 35.92
MOTA	1957 CZ PHE A 246	33.217 21.252 121.251 1.00 36.30
MOTA MOTA	1958 C PHE A 246	35.322 26.065 122.509 1.00 38.93 36.546 26.158 122.630 1.00 40.66
ATOM	1959 O PHE A 246	30.340 20.20 100 70 1 00 30 50
MOTA	1960 N GLU A 247	124 030 3 00 44 60
MOTA	1961 CA GLU A 247	34.3.0 12.00 000 1 00 47 07
ATOM	1962 CB GLU A 247	27 161 27 569 125 185 1.00 56.16
ATOM	1963 CG GLU A 247	21 944 26 865 124.577 1.00 62.03
ATOM	1964 CD GLU A 247 1965 OE1 GLU A 247	32 096 26.088 123.607 1.00 61.85
ATOM		30 822 27.094 125.083 1.00 64.59
ATOM	1966 OE2 GLU A 247 - 1967 C GLU A 247	34.774 24.269 125.285 1.00 39.40
ATOM	1968 0 GLU A 247	33.727 23.879 125.794 1.00 39.91 35.792 23.442 125.041 1.00 38.64
MOTA MOTA	1969 :: PRO A 248	33.732 23.320
ATOM	1970 CD PRO A 248	37.101 23.00
ATOM	1971 CA PRO A 248	33.703 22.00 36 05
ATOM	1971 CB PRO A 248	37.047 21.531 124.648 1.00 36.03 37.970 22.687 124.982 1.00 34.21
ATOM	1973 CG PRO A 248	35 736 21 611 126.779 1.00 33.94
ATOM	1974 C PRO A 248	36 445 22.186 127.597 1.00 32.05
atom	1975 C PRO A 248 1976 H GLU A 249	34 914 20.616 127.096 1.00 29.39
ATOM	1000 CT 11 A 249	34 841 20.105 128.459 1.00 33.12
ATOM	- and co crit 3 249	33.521 19.361 128.693 1.00 30.36
MOTA	1070 CC CTIT A 249	32.284 20.212 128.564 1.00 35.98
ATOM TOM	-000 CD CTT 3 249	31.026 19.388 128.668 1.00 40.52
atcm		

ATOM	1981	OFI	GLU A	249	3	0.817	18 509	127.804	1.00 40.27
ATOM	1982		GLU A			0.252		129.620	1.00 38.57
ATOM	1983	C	GLU A			5.995		128.623	1.00 32.30
ATOM	1984	0	GLU A			6.472		129.728	1.00 28.51
ATOM	1985	N	VAL A			6.434		127.502	1.00 33.74
ATOM-	1986	CA	VAL A			7.516		127.494	1.00 29.31
ATOM	1987	CB	VAL A			6.988		127.926	1.00 29.85
ATOM	1988		VAL A			5.908		126.958	1.00 24.36
	1989		VAL A			8.121		127.978	1.00 25.60
ATOM	1990		VAL A			8.066		126.076	1.00 29.30
ATOM	1991	0	VAL A			7.358		125.114	1.00 24.46
ATOM	1992	N	TYR A			9.323		125.930	1.00 27.96
ATOM ATOM	1993	CA	TYR A			9.865		124.585	1.00 30.06
MOTA	1994	CB	TYR A		_	0.585		124.165	1.00 25.89
ATOM	1995	CG	TYR A			1.998		124.692	1.00 29.90
ATOM	1996	CD1				3.087		124.029	1.00 26.02
ATOM	1997		TYR A			4.390		124.507	1.00 29.20
ATOM	1998	CD2	TYR A			2.249		125.849	1.00 31.96
ATOM	1999	CE2	TYR A			3.551		126.338	1.00 31.54
ATOM	2000	CZ	TYR A		4	4.614		125.664	1.00 31.46
ATOM	2001	OH	TYR A		4	5.894	18.854	126.152	1.00 29.69
ATOM	2002	С	TYR A		4	0.801	15.731	124.451	1.00 27.56
ATOM	2003	0	TYR A	251	4	1.382		125.436	1.00 28.23
ATOM	2004	N	LEU A	252	4	0.908	15.222	123.227	1.00 23.52
ATOM	2005	CA	LEU P		. 4	1.806	14.117	122.919	1.00 26.53
ATOM	2006	CB	LEU A	252		1.057	12.930	122.293	1.00 25.74
ATOM	2007	CG	LEU A	252		0.266		123.221	1.00 28.49
ATOM	2008		LEU ?			9.122		123.868	1.00 27.67
ATOM	2009	CD2	LEU A			9.727		122.414	1.00 32.00
ATOM	2010	С	LEU A			2.842		121.932	1.00 27.53
MOTA	2011	0	LEU A			2.528		121.055	1.00 24.42
MOTA	2012	N	LEU A			4.075		122.078	1.00 24.60
ATOM	2013	CA	LEU A			5.157	14.599		1.00 25.04
ATOM	2014	CB		253		6.176		122.017	1.00 22.48
MOTA	2015	CG	LEU A			7.456		121.323	1.00 21.05 1.00 23.05
ATOM	2016		LEU A			7.105 8.348	16.833 16.578	120.175	1.00 16.40
MOTA	2017		LEU A			5.822		120.580	1.00 23.55
ATOM	2018 2019	C O	LEU A			6.329		121.303	1.00 22.11
ATOM ATOM	2020	Ŋ	GLN A			5.811	13.287		1.00 22.33
ATOM	2021	CA	GLN A			6.417		118.552	1.00 19.84
ATOM	2022	CB	GLN A			5.542		117.348	1.00 23.09
ATOM	2023	CG	GLN A			6.075		115.963	1.00 35.49
ATOM	2024	CD	GLN A			7.073	11.017		1.00 31.26
ATOM	2025	OE1	GLN A			6.712	9.937		1.00 33.69
TOM	2026		GLN A			8.338	11.349		1.00 31.02
TOM	2027	С	GLN A	254		7.831	12.576	118.153	1.00 22.46
rom	2028	0	GLN A	254	4	8.034	13.599	117.478	1.00 17.56.
ATOM	2029	N	LEU A	255		8.804		118.590	1.00 17.64
MOTA	2030	CA	LEU 2	255		0.213		118.383	1.00 17.04
ATOM	2031	CB ·	LEU A	255		0.894		119.750	1.00 14.75
ATOM	2032	CG	LEU ?			0.277		120.670	1.00 25.02
MOTA	2033		LEU A			0.732		122.107	1.00 21.99
ATOM	2034		LEU 2			0.636		120.149	1.00 18.30
MOTA	2035	С	LEU 2			1.023		117.476	1.00 21.34
ATOM	2036	0	LEU A			2.089		117.875	1.00 18.73
atom	2037	N	GLY 3			0.543	10.928	116.259	1.00 22.75
ATOM	2038	CA	GLY 3			1.291		115.330	1.00 24.09
MOTA	2039	C	GLY 2			2.660		115.126	1.00 24.27 1.00 19.15
ATOM	2040	0	GLY :	256		2.805		115.134 114.948	1.00 19.15
ATOM	2041	N	THR 2			3.680 5.014		114.948	1.00 24.14
MOTA	2042	CA	THR A	4 257 4 257		6.048	0 507	114.765	1.00 21.32
MOTA	2043	CB	TUK	3 257		6.009		115.004	1.00 17.48
ATOM	2044 2045	OG1 CG2		257		5.728	9.532	117.016	1.00 15.73
ATOM	2045	CGZ	THR	257		5.403	10.527	113.290	1.00 22.98
ATOM	2030	-		- ·	-			•	

ATOM	2047	O THR A 257 N ASP A 258	56.517 54.493	10.177 112.379	1.00 20.39
ATOM	2048 2049	CA ASP A 258	54.863	10.229 110.961	1.00 26.56
ATOM	2050	CB ASP A 258	53.849		1.00 25.06
ATOM		CG ASP A 258	52 415		1.00 29.08
ATOM	2051		55.222		1.00 27.87
ATOM	2052		55.756	11.661 109.254	1.00 25.61
MOTA	2053	O ASP A 258 OD1 ASP A 258	52.173	11.070 110.742	1.00 29.86
MOTA	2054	OD2 ASP A 258	51.513	9.168 109.869	1.00 33.25
MOTA	2055	050	54.884	12.710 111.045	1.00 31.06
ATOM	2056	N PRO A 259 CD PRO A 259	54.019	12.928 112.220	1.00 28.59
ATOM	2057 2058	CA PRO A 259	55.268	14.006 110.469	1.00 30.95
ATOM	2059	CB PRO A 259	54.447	14.993 111.296	1.00 35.06
ATOM	2060	CG PRO A 259	54.418	14.320 112.636	1.00 35.26
ATOM	2061	C PRO A 259	56.790	14.268 110.583	1.00 29.06
MOTA MOTA	2062	O PRO A 259	57.300	15.251 110.044	1.00 29.70 1.00 22.68
ATOM	2063	N LEU A 260	57.508	13.389 111.280	1.00 22.00
ATOM	2064	CA LEU A 260	58.960	13.545 111.455	1.00 22.47
ATOM	2065	CB LEU A 260	59.461	12.576 112.533 12.791 113.969	1.00 20.14
ATOM	2066	CG LEU A 260	58.970		1.00 22.83
MOTA	2067	CD1 LEU A 260	59.352	11.599 114.826 14.079 114.532	1.00 20.48
ATOM	2068	CD2 LEU A 260	59.592	13.344 110.160	1.00 27.95
MOTA	2069	C LEU A 260	59.770 59.407	12.535 109.299	1.00 27.03
MOTA	2070	O LEU A 260	60.874	14.081 110.040	1.00 26.76
ATOM	2071	N LEU A 261	61.742	14.010 108.865	1.00 26.56
ATOM	2072	CA LEU A 261	63.067	14.737 109.137	1.00 23.06
MOTA	2073	CB LEU A 261	64.131	14.615 108.025	1.00 29.52
MOTA	2074	CG LEU A 261 CD1 LEU A 261	63.642	15.325 106.770	1.00 22.68
MOTA	2075		65.460	15.219 108.475	1.00 26.71
ATOM	2076	CD2 LEU A 261 C LEU A 261	62.063	12.577 108.443	1.00 28.23
ATOM	2077 2078	O LEU A 261	61.880	12.198 107.289	1.00 26.52
ATOM	2079	N GLU A 262	62.539	11.787.109.397	1.00 28.70
MOTA MOTA	. 2080	CA GLU A 262	62.938	10.416 109.135	1.00 31.76 1.00 29.72
ATOM	2081	CB GLU A 262	63.685	9.855 110.351	1.00 23.72
ATOM	2082	CG GLU A 262	64.890	10.683 110.803 11.847 111.708	1.00 28.07
ATOM	2083	CD GLU A 262	64.521	11.847 111.708 12.195 111.789	1.00 28.75
ATOM	2084	OE1 GLU A 262	63.324 65.433	12.424 112.340	1.00 26.08
MOTA	2085	OE2 GLU A 262	61.847	9.429 108.721	1.00 28.63
MOTA	2086	C GLU A 262	62.158	8.305 108.350	1.00 29.72
ATOM	2087	O GLU A 262 N ASP A 263	60.582	9.825 108.785	1.00 28.07
ATOM	2088		59.513	8.902 108.412	1.00 26.85
MOTA	2089	CA ASP A 263 CB ASP A 263	58.305	9.099 109.333	1.00 25.26
ATOM	2090 2091	CG ASP A 263	57.261	7.998 109.185	1.00 33.14
MOTA	2092	OD1 ASP A 263	56.638	7.636 110.209	1.00 29.91
MOTA	2093		57.042	7.509 108.051	1.00 26.56
MOTA MOTA	2094		59.150	9.146 106.957	1.00 29.44 1.00 24.70
ATOM	2095		58.740	10.247 106.594	1.00 24.70
MOTA	2096	N TYR A 264	59.303	8.111 106.130 8.219 104.696	1.00 27.31
MOTA	2097	CA TYR A 264	59.031	7.008 103.935	1.00 40.44
ATOM	2098	CB TYR A 264	59.576	6.771 104.092	1.00 50.64
MOTA	2099	CG TYR A 264	61.059 61.565	6.087 105.199	1.00 54.67
MOTA	2100		62.933		1.00 55.28
MOTA	2101	1	61.960		1.00 53.79
ATOM	2102		63.329	000	1.00 56.61
MOTA	2103		63.809	6.354 104.388	1.00 56.22
MOTA	2104	OCA	65.161	6.147 104.524	
MOTA	2105		57.561	8.394 104.294	
ATOM	2106	0 6 4	57.311	8.825 103.178	
ATOM	2107 2108		56.641	8.059 105.172	1.00 26.88
ATOM		0CE	55.244	8.209 104.792	1.00 24.39
ATOM			54.360		
MOTA MOTA		1 CG LEU A 265	54.663	5.724 105.168	
ATOM			53.464	4.836 105.503	, 1.00 22.27
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MOTA	2113	CD2	LEU A	265	54.931	5.620 1	103.682	1.00 33.35
ATOM	2114	С	LEU A		54.669	9.617 1		1.00 20.81
ATOM	2115	0	LEU A		53.457		104.979	1.00 21.30
MOTA	2116	N	SER A		55.540	10.622 1		1.00 23.23
ATOM	2117	CA	SER A		55.084	12.011	105.008	1.00 26.30 1.00 25.16
MOTA	2118	CB	SER A		54.856 56.074		07.084	1.00 22.92
ATOM	2119	oG	SER A		56.147		104.355	1.00 30.17
MOTA	2120 2121	С 0	SER A		57.334		104.385	1.00 31.65
MOTA MOTA	2122	N	LYS A		55.731		103.757	1.00 31.56
ATOM	2123	CA	LYS A		56.696	14.873	103.140	1.00 27.65
ATOM	2124	СВ	LYS A		56.140		101.834	1.00 30.54
ATOM	2125	CG	LYS A		55.815		100.819	1.00 34.13
MOTA	2126	CD	LYS A		57.039		100.549	1.00 29.09
MOTA	2127	CE	LYS A		56.745	12.376	99.524 99.272	1.00 37.61 1.00 31.91
MOTA	2128	NZ	LYS A		57.956 57.050	11.541 16.004	104.107	1.00 31.91
ATOM	2129	С	LYS A		57.624		103.707	1.00 27.86
ATOM	2130 2131	N O	PHE A		56.688		105.377	1.00 24.19
ATOM ATOM	2132	CA	PHE A		57.009		106.412	1.00 25.34
ATOM	2133	CB	PHE A		56.014		107.579	1.00 24.54
ATOM	2134	CG	PHE A		54:636	17.256	107.257	1.00 21.68
ATOM	2135	CD1	PHE A		53.631		108.216	1.00 28.65
ATOM	2136	CD2	PHE A	268	54.346		106.011	1.00 25.14
ATOM	2137	CEl			52.357		107.944	1.00 25.34
MOTA	2138	CE2	PHE A		53.077		105.730	1.00 23.79
MOTA	2139	CZ	PHE A		52.082		106.702 106.908	1.00 28.13 1.00 25.66
MOTA	2140	С	PHE A		58.410 58.778		106.908	1.00 25.00
MOTA	2141	0	PHE A ASN A		59.194		107.230	1.00 25.81
ATOM	2142 2143	N CA	ASN A		60.555		107.709	1.00 30.60
MOTA MOTA	2143	CB	ASN A		61.566		106.767	1.00 31.97
MOTA	2145	CG	ASN A		61.392		105.317	1.00 35.83
MOTA	2146		ASN A		61.235	16.332	105.020	1.00 33.93
ATOM	2147		ASN A	269	61.446		104.405	1.00 33.95
ATOM	2148	С	ASN A		60.723		109.110	1.00 31.80
MOTA	2149	0	ASN A		61.609		109.348	1.00 28.13 1.00 29.70
MOTA	2150	N	LEU A	270	59.888		110.043	1.00 25.70
ATOM	2151	CA	LEU A	270 270	59.954 58.575		112.074	1.00 26.60
ATOM	2152	CB CG	LEU A	270	57.392		111.297	1.00 29.62
ATOM ATOM	2154			270	56.177		112.222	1.00 28.54
ATOM	2155	CD2		270	57.740		110.790	1.00 29.40
ATOM	3156	C	LEU A	270	60.979		112.301	1.00 26.83
ATOM	2157	0	LEU A	270	61.490		111.990	1.00 19.60
ATOM	2158	N	SER A	271	61.275	17.896	113.420	1.00 21.66
MOTA	2159	CA	SER A	271	62.220	17.365	114.393	1.00 27.08
MOTA	2160	CB	SER A	271	63.189	18.460	114.846 115.626	1.00 24.64 1.00 18.60
ATOM	2161	OG	SER A	2/1	62.499 61.454		115.618	1.00 23.70
ATOM	2162	C	SER A		60.272	17 150	115.772	1.00 22.56
ATCM ATOM	2163 2164	N O	ASN A		62.157		116.470	1.00 28.35
ATOM	2165	CA	ASN A		61.649	15.593	117.739	1.00 31.03
ATOM	2166	CB	ASN A		62.774	14.880	118.498	1.00 28.80
ATOM	2167	CG	ASN A		62.854	13.428	118.180	1.00 36.65
ATOM	2168		ASN A		63.712		118.705	1.00 29.89
ATOM	2169	ND2	ASN A	272	61.953	12.969	117.319	1.00 40.80
ATOM	2170	С	ASN A	272	61.167		118.661	1.00 31.83
ATOM	2171	0	ASN A	272	60.090	16.618	119.261	1.00 27.50 1.00 31.49
ATOM	2172	N	VAL A		62.032	17.693	118.804 119.667	1.00 31.49
ATOM	1173	CA	VAL A		61.802 63.069	19 700	119.725	1.00 35.80
ATOM	2174	CB	VAL A VAL A		62.804	20 988	120.500	1.00 48.07
ATOM	2175 2176	000	VAL A	273	64.198	18.914	120.381	1.00 42.81
ATOM	2177	C	VAL A	273	60.608	19.665	119.234	1.00 30.13
atom atom	2178	õ	VAL A	273	59.872	20.174	120.072	1.00 31.44

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ATOM	2179	N ALA A 274	60.405		1.00 24.15
	2180	CA ALA A 274	59.258		1.00 26.27
MOTA	2181	CB ALA A 274	59.341	20.780 115.965	1.00 21.85
ATOM	2182	C ALA A 274	58.005	19.759 117.789	1.00 25.68
ATOM	2183	O ALA A 274	56.961	20.324 118.132	1.00 23.76
MOTA	2183	N PHE A 275	58.122	18.438 117.680	1.00 25.20
ATOM		CA PHE A 275	57.015	17.538 117.974	1.00 25.89
MOTA	2185	CB PHE A 275	57.449	16.092 117.710	1.00 25.21
MOTA	2186	CG PHE A 275	56.340	15.088 117.870	1.00 28.85
MOTA	2187	CD1 PHE A 275	55.278	15.064 116.982	1.00 32.60
MOTA	2188	CD2 PHE A 275	. 56.365	14.166 118.910	1.00 28.93
MOTA	2189	CE1 PHE A 275	54.248	14.132 117.119	1.00 33.75
MOTA	2190	CE2 PHE A 275	55.343	13.231 119.059	1.00 30.83
ATOM	2191	CZ PHE A 275	54.282	13.214 118.160	1.00 34.19
ATOM	2192 2193	C PHE A 275	56.607	17.712 119.445	1.00 24.63
MOTA	2194	O PHE A 275	55.428	17.877 119.767	1.00 22.40
MOTA	2195	N LEU A 276	57.594	17.673 120.331	1.00 25.45
ATOM	2196	CA LEU A 276	57.357	17.837 121.766	1.00 27.94
MOTA	2197	CB LEU A 276	58.667	17.692 122.534	1.00 26.11
MOTA	2198	CG LEU A 276	58.651	18.132 124.001	1.00 31.15
MOTA	2199	CD1 LEU A 276	57.609	17.351 124.761	1.00 29.37
MOTA	2200	CD2 LEU A 276	60.033	17.937 124.612	1.00 27.98
ATOM	2201	C LEU A 276	56.770	19.208 122.058	1.00 30.12
MOTA	2202	O LEU A 276	55.822	19.348 122.838	1.00 28.69
MOTA MOTA	2203	N LYS A 277	57.353	20.219 121.425	1.00 30.99
ATOM	2204	CA LYS A 277	56.913	21.593 121.603	1.00 27.04
ATOM	2205	CB LYS A 277	57.742	22.516 120.704	1.00 30.38
ATOM	2206	CG LYS A 277	57.941	23.934 121.237	1.00 36.46
ATOM	2207	CD LYS A 277	56.633	24.668 121.454	1.00 42.73
ATOM	2208	CE LYS A 277	56.870	26.059 122.049	1.00 45.70
ATOM	2209	NZ LYS A 277	57.528	26.004 123.390	1.00 44.64
MOTA	2210	C LYS A 277	55.432	21.683 121.242	1.00 30.26 1.00 27.55
ATOM	2211	O LYS A 277	54.640	22.284 121.972	1.00 27.35
ATOM	2212	N ALA A 278	55.057	21.078 120.115	1.00 30.13
ATOM	2213	CA ALA A 278	53.662	21.096 119.676	1.00 30.31
ATOM	2214	CB ALA A 278	53.496	20.270 118.406	1.00 30.99
ATOM	2215	C ALA A 278	52.789	20.527 120.786 21.067 121.108	1.00 30.35
MOTA	2216	O ALA A 278	51.735	19.422 121.360	1.00 27.85
ATCM	2217	N PHE A 279	53.245	18.759 122.448	1.00 29.62
ATOM	. 2218	CA PHE A 279	52.540	17.534 122.886	1.00 26.83
ATOM	2219	CB PHE A 279	53.343 52.786	16.823 124.078	1.00 29.11
ATOM	2220	CG PHE A 279	51.556	16.176 124.015	1.00 28.86
MOTA	2221	CD1 PHE A 279	53.505	16.786 125.267	1.00 33.03
ATOM	2222	CD2 PHE A 279	51.054	15.500 125.121	1.00 37.90
MOTA	2223	CE1 PHE A 279	53.011		1.00 38.01
MOTA	2224	CE2 PHE A 279	51.783	15.469 126.313	1.00 36.23
MOTA	2225				1.00 30.57
ATOM	2226		51.265		1.00 26.26
ATOM	2227		53.432	20.429 123.990	1.00 32.03
MOTA	2228		53.339		1.00 30.54
MOTA	2229		54.724	21.819 125.583	1.00 26.79
ATOM	2230		55.508	20.695 126.227	1.00 33.68
MOTA	2231		54.958	19.886 126.971	1.00 34.47
MOTA	2232 2233		56.809	20.660 125.973	1.00 33.59
MOTA	2234	000	52.493	22.587 124.781	1.00 30.46
MOTA	2235		51.899	23.182 125.677	1.00 27.66
MOTA	2236		52.429	22.960 123.509	1.00 27.32
MOTA	2237		51.620	24.107 123.128	1.00 31.07
MOTA	2238		51.878	24.517 121.666	1.00 35.08
MOTA	2239		50.776	35.445 121.174	1.00 34.33
ATOM	2240		53.253		1.00 33.53
ATOM	2241		53.590		1.00 34.88
ATOM	2242	C ILE A 281	50.141		1.00 31.22 1.00 30.15
ATOM	2243	2 2 2 2 2 2	49.391		
ATOM	2244		49.723	3 22.606 122.923	1.00 30.91
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151/263

	2245	CA VAL A 282	48.332	22.214 123.081	1.00 30.76
MOTA	2245			20.797 122.523	1.00 35.10
ATOM	2246	CB YAL A 282	48.075		
ATOM	2247	CG1 VAL A 282	46.641	20.358 122.841	1.00 28.72
		CG2 VAL A 282	48.313	20.781 121.018	1.00 28.66
MOTA	2248			22.236 124.558	1.00 31.39
ATCM	2249	C VAL A 282	47.952		
ATOM	2250	O VAL A 282	46.884	22.715 124.917	1.00 32.70
MOTA'	2251	N ARG A 283	48.837	21.720 125.406	1.00 29.86
			48.587	21.675 126.840	1.00 34.82
MOTA	2252			20.785 127.519	1.00 31.44
MOTA	2253	CB ARG A 283	49.629	20.763 127.313	
MCTA	2254	CG- ARG A 283	49.551	19.334 127.061	1.00 29.49
ATOM	2255	CD ARG A 283	50.729	18.539 127.554	1.00 30:67
	2256	NE ARG A 283	50.730	18.314 128.990	1.00 30.78
MOTA			51.826	18.351 129.742	1.00 35.27
MOTA	2257	CZ ARG A 283			1.00 36.46
MOTA	2258	NH1 ARG A 283	53.012	18.611 129.198	
ATOM	2259	NH2 ARG A 283	51.742		1.00 35.90
ATOM	2260	C ARG A 283	48.561	23.065 127.473	1.00 36.06
	2261	O ARG A 283	47.830	23.302 128.439	1.00 35.04
ATOM			49.350	23.985 126.928	1.00 35.70
ATOM	2262	N GLU A 284			1.00 40.93
ATOM	2263	CA GLU A 284	49.376	25.348 127.448	
ATOM	2264	CB GLU A 284	50.499	26.166 126.799	1.00 44.17
ATOM	2265	CG GLU A 284	51.917	25.702 127.141	1.00 56.39
	2266	CD GLU A 284	52.989	26.495 126.401	1.00 60.69
MOTA			53.012	27.738 126.542	1.00 63.13
ATOM	2267			25.880 125.680	1.00 62.79
MOTA	2268	OE2 GLU A 284	53.810		
ATOM	2269	C GLU A 284	48.039	26.014 127.148	1.00 39.24
ATOM	2270	O GLU A 284	47.525	26.783 127.954	1.00 38.52
MOTA	2271	N WAL A 285		25.704 125.986	1.00 33.75
				26.294 125.592	1.00 35.82
MOTA	2272			26.291 124.062	1.00 34.14
MOTA	2273	CB VAL A 285			1.00 36.43
ATOM	2274	CG1 VAL A 285		26.811 123.693	
ATOM	2275	CG2 VAL A 285	47.114	27.153 123.419	1.00 37.26
ATOM	2276	C VAL A 285		25.638 126.192	1.00 38.96
				26.336 126.611	1.00 41.83
MOTA	2277			24.308 126.236	1.00 37.57
MOTA	2278	N PHE A 286			1.00 35.05
MOTA	2279	CA PHE A 286		23.608 126.753	
ATOM	2280	CB PHE A 286	43.159	22.723 125.657	1.00 32.53
ATOM	2281	CG PHE A 286	42.544	23.490 124.529	1.00 30.15
	2282	CD1 PHE A 286		23.459 123.256	1.00 33.96
ATOM				24.245 124.736	1.00 30.30
ATOM	2283	CD2 PHE A 286		24.170 122.202	1.00 32.96
MOTA	2284	CE1 PHE A 286			1.00 31.67
MOTA	2285	CE2 PHE A 286		24.958 123.693	
ATOM	2286	CZ PHE A 286	41.381	24.919 122.419	1.00 31.66
ATOM	2287	C PHE A 286		22.773 128.015	1.00 35.18
				22.080 128.409	1.00 36.97
ATOM	2288			22.840 128.656	1.00 30.87
ATOM	2289	N GLY A 28			1.00 30.06
ATCM	2290	CA GLY : 28	45.297		
ATOM	2291	C GLY 1. 28'	45.525	20.590 129.527	1.00 34.44
MOTA	2292	O GLY 7. 28	45.914	20.264 128.403	1.00 32.54
	2293	N GLU A 28		19.710 130.500	1.00 28.42
MOTA				18.273 130.310	1.00 32.23
MOTA	2294	CA GLU A 28			1.00 37.02
ATOM	2295	CB GLU A 28		17.576 131.663	
ATCM	2296	CG GLU A 281	46.910	17.864 132.411	1.00 45.36
ATOM	2297	CD GLU A 28		17.455 131.622	1.00 45.65
	2298	OE1 GLU A 28		16.334 131.069	1.00 46.42
ATCM		OEI GLO A 20	49.106	18.245 131.571	1.00 50.78
MOTA	2299	OE2 GLU A 28	-	17 672 170 546	1.00 30.98
ATOM	2300	C GLU A 28		17.623 129.546	1.00 30.70
ATOM	2301	0 GLU A 28	3 43.144	17.957 129.762	1.00 28.67
ATOM	2302	N GLY A 28	44.641	16.694 128.657	1.00 29.66
	2303	CA GLY A 28			1.00 28.08
ATCM				14.510 127.861	1.00 30.45
ATCM	2304	C GLY A 28			1.00 25.90
ATCM	2305	0 GLY A 38		14.007 126.739	1.00 26.21
ATOM	2306	N VAL A 29		13.307 126.868	1.00 20.21
ATOM	2307	CA VAL A 29		12.373 126.718	1.00 27.31
	2308	CB VAL A 29	•	11.626 126.412	1.00 26.53
ATOM			_		<u>1</u> .00 25.36
ATCM	2309				1.00 24.38
atom	2310	CG2 VAL A 29	U 41.500	11.022 20005	*••

	2311 C VAL A 290	44.580 1	2.248 125.550 1.00 24.52
ATOM	2311 C VAL A 290 2312 O VAL A 290	44.307 1	2.743 124.461 1.00 26.84
ATOM	2313 N TYR A 291	45,716 1	1.597 125.775 1.00 23.56
MOTA	2314 CA TYR A 291	46.729 1	1.478 124.732 1.00 23.74
ATOM ATOM	2315 CB TYR A 291		1.817 125.342 1.00 18.40 3 113 126.118 1.00 21.60
ATOM	2316 CG TYR A 291		
MOTA	2317 CD1 TYR A 291		
ATOM	2318 CE1 TYR A 291		
ATOM	2319 CD2 TYR A 291	47.634 1	4.291 125.503 1.00 18.17 5.476 126.220 1.00 26.36
ATOM	2320 CE2 TYR A 291		5.489 127.575 1.00 27.68
ATOM	2321 CZ TYR A 291	47.786 1 47.631 1	6.657 128.283 1.00 28.92
ATOM	2322 OH TYR A 291	46.768 1	0.118 124.044 1.00 23.03
ATOM	2323 C TYR A 291 2324 O TYR A 291	46.837	9.082 124.707 1.00 20.66
ATOM	2324 O TYR A 291 2325 N LEU A 292	46.755	10.142 122.711 1.00 23.96
ATOM	2326 CA LEU A 292	46.767	8.924 121.902 1.00 20.69
ATOM ATOM	2327 CB LEU A 292	45.482	8.842 121.076 1.00 22.13 9.063 121.814 1.00 23.78
ATOM	2328 CG LEU A 292	44.162	
ATOM	2329 CD1 LEU A 292	43.001	
ATOM	2330 CD2 LEU A 292	44.008	
ATOM	2331 C LEU A 292	47.953	8.885 120.947 1.00 22.90 9.923 120.617 1.00 22.31
MOTA	2332 O LEU A 292	48.527 48.301	7.684 120.491 1.00 18.83
MOTA	2333 N GLY A 293	49.401	7 529 119 554 1 00 24 35
ATOM	2334 CA GLY A 293 2335 C GLY A 293	48.908	7.846 118.154 1.00 24.22
ATOM		48.025	8.684 117.991 1.00 20.46
ATOM	2336 O GLY A 293 2337 N GLY A 294	49.459	7.177 117.148 1.00 24.63
atom atom	2338 CA GLY A 294	49.035	7.423 115.779 1.00 22.03
ATOM	2339 C GLY A 294	50.024	6.869 114.769 1.00 22.90 6 150 115.136 1.00 24.10
ATOM	2340 O GLY A 294	50.956	6.150 115.136 1.00 24.10 7.203 113.499 1.00 19.85
ATOM	2341 N GLY A 295	49.825 50.721	6.724 112.458 1.00 23.33
MOTA	2342 CA GLY A 295	52.185	7.010 112.740 1.00 19.01
MOTA	2343 C GLY A 295 2344 O GLY A 295	52.541	8.094 113.196 1.00 19.39
ATOM		53.035	6.026 112.472 1.00 25.85
ATOM	2345 N GLY A 296 2346 CA GLY A 296	54.468	6.162 112.690 1.00 22.65
ATOM ATOM	2347 C GLY A 296	55.098	4.898 112.146 1.00 25.31 3.798 112.609 1.00 25.86
ATOM	2348 C GLY A 296	54.778	
ATOM	2349 N TYR A 297	56.005	5.034 111.185 1.00 22.83 3.852 110.577 1.00 23.93
ATOM	2350 CA TYR A 297	56.598 56.137	3.780 109.125 1.00 21.59
ATOM	2351 CB TYR A 297	54.660	4 084 109.035 1.00 25.85
ATOM	2352 CG TYR A 297 2353 CD1 TYR A 297	54.203	5.402 109.017 1.00 22.28
ATOM		52.842	5.695 109.089 1.00 20.19
ATOM	2354 CE1 TYR A 297 2355 CD2 TYR A 297	53.713	3.062 109.116 1.00 25.28
atom atom	2356 CE2 TYR A 297	52.352	3.346 109.190 1.00 21.83 4.666 109.181 1.00 21.81
ATOM	2357 CZ TYR A 297	51.927	4.666 109.181 1.00 21.81 4.972 109.305 1.00 19.51
ATOM	2358 OH TYR A 297	50.588	3.694 110.674 1.00 23.78
ATOM	2359 C TYR A 297	58.104 58.665	2.724 110.154 1.00 22.07
ATOM	2360 O TYR A 297	58.765	4 641 111.326 1.00 23.71
ATOM	2361 N HIS A 298 2362 CA HIS A 298	60.204	4.534 111.517 1.00 26.33
HOTA		60.913	5.852 111.216 1.00 28.74
ATOM	2363 CB HIS A 298 2364 CG HIS A 298	62.403	5.727 111.213 1.00 33.08
ATOM ATOM	2365 CD2 HIS A 298	63.273	5.465 112.215 1.00 31.83 5.775 110.056 1.00 32.49
ATOM	2366 ND1 HIS A 298	63.151	3
ATOM	2367 CE1 HIS A 298	64.419	5.547 110.345 1.00 29.10 5.354 111.648 1.00 38.70
ATCM	2368 NE2 HIS A 298	64.520 60.371	4 188 112.996 1.00 27.81
-TOM	2369 C HIS A 298	60.120	5 020 113.865 1.00 25.07
ATOM	2370 O HIS A 298	60.829	2.963 113.297 1.00 29.37
MOTE	200 200 200	61.285	1.932 112.352 1.00 26.09
ATOM	3 200	61.024	2,491 114.669 1.00 29.46
ATOM	2374 CB PRO A 299	61.675	1.118.114.465 1.00 29.03 1.306 113.137 1.00 27.34
ATOM ATOM	2375 CG PRO A 299	62.411	1.50
ATOM	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	61.849	3.403 115.570 1.00 31.88
	•		

MOTA	2377	0	PRO A 2	299	61.480	3.622	116.724	1.00 32.45
	2378	N	TYR A 3		62.959	3.932	115.058	1.00 27.41
ATOM			TYR A 3		63.803		115.878	1.00 27.34
MOTA	2379	CA			65.163		115.207	1.00 26.84
ATOM	2380	CB	TYR A 3				114.738	1.00 29.09
MOTA	2381	CG	TYR A 3		65.912			1.00 30.93
ATOM	2382	CD1	TYR A 3	300	65.517		115.120	
MOTA	2383	CE1	TYR A 3		66.214		114.682	1.00 30.68
MOTA	2384	CD2	TYR A 3	300	67.027		113.908	1.00 29.72
ATOM	2385	CE2	TYR A 3		67.730	2.829	113.466	1.00 30.76
ATOM	2386	CZ	TYR A		67.320	1.568	113.854	1.00 33.89
ATOM	2387	ОН	TYR A		68.011		113.404	1.00 34.70
	2388	C.	TYR A		63.113	6.134	116.137	1.00 23.44
MOTA		Ö	TYR A		63.108		117.264	1.00 23.87
MOTA	2389		ALA A		62.530		115.092	1.00 22.19
ATOM	2390	N			61.839	7.993	115.216	1.00 26.50
MOTA	2391	CA	ALA A		61.266		113.864	1.00 24.16
MOTA	2392	CB	ALA A		60.715		116.237	1.00 27.86
MOTA	2393	C	ALA A				117.117	1.00 22.47
MOTA	2394	0	ALA A		60.556		116.110	1.00 23.27
MOTA	2395	N	LEU A		59.940		116.110	1.00 26.50
MOTA	2396	CA	LEU A		58.818			
MOTA	2397	CB	LEU A		58.036		116.483	1.00 26.02
ATOM	2398	CG	LEU A		56.866		117.291	1.00 29.73
ATOM	2399	CD1	LEU A	302	55.983		116.394	1.00 31.01
ATOM	2400	CD2	LEU A	302	57.394		118.465	1.00 32.99
ATOM	2401	С	LEU A	302	59.246	6.373	118.451	1.00 27.49
ATOM	2402	0	LEU A	302	58.648	6.946	119.358	1.00 25.22
ATOM	2403	N	ALA A		60.289	5.580		1.00 27.85
ATOM	2404	CA	ALA A		60.765	5.320	120.024	1.00 27.33
ATOM	2405	CB	ALA A		61.854		119.990	1.00 29.17
MOTA	2406	c	ALA A		61.279	6.580	120.714	1.00 26.64
MOTA	2407	ō	ALA A		60.944	6.849	121.875	1.00 23.18
	2408	N		304	62.092	7.354	120.003	1.00 27.48
ATOM	2409	CA		304	62.648	8.570	120.581	1.00 25.46
MOTA		CB	ARG A		63.773		119.704	1.00 21.31
ATOM	2410		ARG A		65.005	8.231	119.562	1.00 25.98
MOTA	2411	CG	ARG A		66.153	9.042	118.951	1.00 27.87
MOTA	2412	CD	ARG A		65.647	9.766	117.796	1.00 36.76
MOTA	2413	NE			66.207	10.838	117.261	1.00 30.79
MOTA	2414	CZ	ARG A		67.323		117.768	1.00 30.11
MOTA	2415	NH1			65.623		116.225	1.00 36.07
MOTA	2416	NH2				9.634		1.00 25.46
ATOM	2417	C	ARG A		61.585	10.237		1.00 24.23
MOTA	2418	0	ARG A		61.519	9.854		1.00 22.22
MOTA	2419	И	ALA A		60.741			1.00 26.70
ATOM	2420	CA	ALA A		59.700	10.868		1.00 28.14
MOTA	2421	CB	ALA A		58.914	10.960	118.607	1.00 25.54
ATOM	2422	С	ALA A		58.749	10.626	121.072	1.00 24.17
MOTA	2423	0	ALA A		58 513	11.520	121.883	1.00 25.66
MOTA	2424	N	TRP A		58 '.89	9.426	121.160	
ATOM	3425	CA	TRP A	306	57.270	9.157	122.253	1.00 28.01
MOTA	2426	CB	TRP A		56.454	7.873	122.012	1.00 18.66
ATOM	2427	CG	TRP A	306	55.382	8.052	120.973	1.00 21.80
MOTA	2428	CD2	TRP A	306	54.709	7.019	120.240	1.00 24.88
ATOM	2429	CE2	TRP A	306	53.725		119.442	1.00 23.98
ATOM	2430	CE3			54.839	5.623	120.181	1.00 23.26
ATOM	2431	CD1			54.795		120.599	1.00 20.24
MOTA	2432				53.7.99	8.995	119.681	1.00 24.18
MOTA	2433	CZ2			52.875	6.926	118.590	1.00 24.30
	2434	CZ3			53.993	4.906	119.335	1.00 23.89
MOTA	2435	CH2			53.024	5.562	118,550	1.00 24.12
MOTA		Cn2	TRP A		57.969	9.113	123.605	1.00 27.93
MOTA	2436				57.330	9 319	124.637	1.00 28.58
ATOM	2437	•	THE A	307	59.273	8.851	123.615	1.00 26.76
ATOM	2438	N	THR A	307	60.000	8 850	124.881	1.00 22.81
MOTA	2439	CA	THE A	307	61.457	g 310	124.730	1.00 25.54
MOTA	2440	CB	THR A	307	61.435	6 002	124.504	1.00 22.73
ATOM	2441	OG1		307		0.704	125.988	1.00 24.03
ATOM	2442	CG	2 THR A	307	62.269	0.37	,	2.00 22.00

10.288 125.396 1.00 26.54 60.027 THR A 307 2443 С MOTA 10.526 126.604 1.00 25.34 59.925 THR A 307 2444 0 MOTA 11.247 124.478 1.00 21.65 60.152 **LEU A 308** 2445 N MOTA 1.00 21.41 12:657 124.862 60.172 LEU A 308 CA 2446 ATOM 13.558 123.642 1.00 19.20 LEU A 308 60.442 2447 CB. ATOM 13.386 122.938 1.00 21.31 61.797 **LEU A 308** CG MOTA 2448 14.362 121.774 1.00 21.75 61.900 CD1_LEU A 308 2449 **ATOM** 1.00 19.26 13.622 123.915 62.937 CD2 LEU A 308 2450 ATOM 12.981 125.479 1.00 25.18 58.811 LEU A 308 C 2451 1.00 21.35 ATOM 13.565 126.561 58.731 **LEU A 308** 2452 0 ATOM 1.00 21.74 12.567 124.806 57.743 ILE A 309 N MOTA 2453 12.799 125.298 1.00 19.23 56.394 ILE A 309 CA 2454 1.00 19.63 MOTA 12.149 124.366 ILE A 309 55.337 CB 2455 1.00 19.54 1.00 20.80 MOTA 12.321 124.948 53.945 CG2 ILE A 309 2456 MOTA 12.788 122.979 CG1 ILE A 309 CD1 ILE A 309 55.403 2457 1.00 20.08 MOTA 14.274 122.988 55.118 2458 ATOM 1.00 23.97 12.222 126.701 56.228 ILE A 309 2459 С MOTA 12.894 127.602 1.00 21.38 55.731 2460 0 ILE A 309 ATOM 1.00 26.45 10.977 126.888 56.652 TRP A 310 2461 N 1.00 28.35 1.00 23.95 MOTA 10.342 128.192 56.525 TRP A 310 2462 CA MOTA 8.872 128.132 56.940 TRP A 310 CB 1.00 29.60 2463 8.203 129.479 7.967 130.263 MOTA 56:874 TRP A 310 2464 CG MOTA 1.00 31.40 55.697 CD2 TRP A 310 2465 MOTA 7.390 131.480 1.00 32.47 56.115 CE2 TRP. A 310 2466 ATOM. 8.189 130.055 1.00 32.30 54.329 CE3 TRP A 310 2467 7.770 130.232 MOTA 1.00 33.42 57.926 CD1 TRP A 310 2468 1.00 30.09 ATOM 7.282 131.436 NE1 TRP A 310 57.480 2469 MOTA 1.00 29.93 7.030 132.492 55.213 CZ2 TRP A 310 2470 7.831 131.062 MOTA 1.00 29.72 53.432 CZ3 TRP A 310 2471 MOTA 1.00 24.53 7.259 132.265 53.881 CH2 TRP A 310 2472 MOTA 11.048 129.293 1.00 33.49 TRP A 310 57.308 2473 С 1.00 27.59 ATOM 11.137 130.426 TRP A 310 56.820 2474 0 MOTA 11.535 128.984 1.00 29.34 58.512 CYS A 311 2475 N 1.00 30.06 MOTA 12.247 129.994 59.305 CA CYS A 311 1.00 30.08 2476 MOTA 12.538 129.479 CYS A 311 CYS A 311 CYS A 311 60.722 2477 CB 11.084 129.327 MOTA 1.00 33.17 61.804 2478 SG 1.00 29.25 MOTA 13.560 130.397 58.612 2479 С ATOM 1.00 28.80 13.940 131.570 58.612 CYS A 311 2480 0 1.00 23.13 14.247 129.425 ATOM 58.021 GLU A 312 N 1.00 30.31 1.00 28.97 2481 MOTA 15:496 129.696 57.308 GLU A 312 2482 CA ATOM 16.032 128.427 56.648 GLU A 312 2483 CB 1.00 41.67 ATOM 57.080 17.418 127.988 GLU A 312 2484 CG MOTA 1.00 44.21 18.465 129.059 56.905 GLU A 312 1.00 54.15 CD 2485 MOTA 18.534 129.658 . 55.813 OE1 GLU A 312 ATOM 2486 1.00 43.90 19.233 129.290 57.860 OE2 GLU A 312 2487 ATOM 15.225 130.712 1.00 28.03 56.204 GLU A 312 2488 С 1.00 30.64 15.869 131.751 14.270 130.388 ATOM 56.120 GLU A 312 0 2489 1.00 31.06 ATOM LEU A 313 55.343 2490 N 1.00 36.21 ATOM 13.918 131.266 54.231 LEU A 313 MOTA 2491 CA 12.873 130.604 1.00 28.83 53.337 LEU A 313 CB 2492 MOTA 1.00 34.62 13.342 129.429 52.493 LEU A 313 2493 CG 1.00 33.05 12.146 128.788 MOTA CD1 LEU A 313 CD2 LEU A 313 51.818 2494 MOTA 14.357 129.914 13.377 132.610 1.00 27.27 51.471 2495 1.00 33.97 ATOM 54.685 LEU A 313 2496 1.00 37.26 MOTA 13.730 133.644 54.131 LEU A 313 2497 0 1.00 33.72 MOTA 12.508 132.577 55.688 SER A 314 2498 N ATOM 11.880 133.776 1.00 33.58 56.233 SER A 314 1.00 35.88 2499 CA 10.743 133.388 MOTA 57.183 **SER A 314** CB 2500 1.00 45.88 ATOM 9.761 132.628 56.517 SER A 314 2501 ЭG 1.00 31.54 12.846 134.659 MOTA 57.002 SER A 314 2502 1.00 27.69 12.513 135.788 ATOM 57.339 SER A 314 1.00 35.50 2503 O ATOM 14.021 134.130 57.312 GLY A 315 2504 N 1.00 36.31 14.996 134.905 ATOM 58.057 **GLY A 315** 2505 CA 1.00 38.47 14.634 135.099 ATOM 59.518 GLY A 315 С 2506 1.00 41.57 15.049 136.078 ATOM 60.138 GLY A 315 1.00 39.32 2507 J 13.862 134.181 ATOM 60.089 ARG A 316 2508 N ATCM

3.0004	2500	C 3	300 1	216		61.490	13 501	134.332	1 00	39.06
MOTA	2509	CA	ARG A							
MOTA	2510	CB	ARG A	A 316		61.641	11.982	134.413	1.00	39.16
ATOM	2511	CG	ARG A	316		61.233	11.226	133.184	1.00	39.11
MOTA	2512	CD	ARG A			61.426		133.429		41.21
								134.389		40.97
MOTA	2513	NE	ARG A			60.461				
ATOM	2514	CZ	ARG A	4 316		60.524		134.926		36.40
ATOM	2515	NH1	ARG A	316		61.511	7.209	134.598	1.00	38.93
ATOM	2516	NH2	ARG A			59.583	7.621	135.768	1.00	30.53
	2517	С	ARG A			62.369		133.230		40.17
ATOM										
MOTA	2518	0	-ARG A			61.910		132.111		34.27
MOTA	2519	N	GLU A	3 317		63.633	14.325	133.564	1.00	41.26
ATOM	2520	CA	GLU A	317		64.580	14.905	132.619	1.00	44.42
MOTA	2521	CB	GLU A		•	65.901		133.317	1 00	46.84
								134.629		57.66
ATOM	2522	CG	GLU A			65.756				
ATOM	2523	CD	GLU A	317		65.212		135.743		65.46
MOTA	2524	OE1	GLU A	317		65.871	14.101	136.073	1.00	68.38
ATOM	2525	OE2	GLU A	317		64.129	15.425	136.287	1.00	67.24
MOTA	2526	C	GLU A			64.873		131.462		38.45
	2527		GLU A			64.977		131.636		38.84
ATOM		0								
ATOM	2528	N	VAL A			65.010		130.275		37.64
ATOM	2529	CA	VAL A	A 318		65.315	13.720	129.108	1.00	39.13
ATOM	2530	CB	VAL A	318		64.858	14.417	127.810	1.00	42.75
ATOM	2531		VAL A			65.192		126.610		41.84
						63.364		127.867		42.38
ATOM	2532		VAL A							
MOTA	2533	С	VAL A			66.822		129.037		38.45
ATOM	2534	0	VAL A	A 318		67.598	14.442	128.910	1.00	36.04
ATOM	2535	N	PRO 2	319		67.261	12.236	129.156	1.00	39.54
ATOM	2536	CD	PRO A			66.512	10.994	129.397	1.00	40.47
			PRO A			68.695		129.088		43.85
MOTA	2537	CA								
MOTA	2538	CB	PRO A			68.745		129.319		44.12
MOTA	2539	CG	PRO A	A 319		67.419	9.986	128.745	1.00	46.48
ATOM	2540	С	PRO A	A 319		69.228	12.353	127.718	1.00	43.55
ATOM	2541	Ó	PRO A			68.563	12.141	126.708	1.00	43.45
	2542		GLU A			70.420		127.689		42.52
ATOM		N								
MOTA	2543	CA	GLU A			71.026		126.440		45.19
ATOM	2544	CB	GLU A	320		72.384		126.706		43.86
ATOM	2545	CG	GLU A	A 320		73.121	14.412	125.434	1.00	52.62
ATOM	2546	CD	GLU A	320		74.507	14.967	125.697	1.00	52.36
ATOM	2547	OE1	GLU A			75.219		124.720		56.25
						74.883		126.875		52.25
ATCM .		OE2	GLU A							
MOTA	2549	C	GLU 1			71.223		125.421		43.52
MOTA	2550	0	GLU A	A 320		70.876		124.253	1.00	41.89
ATOM	2551	N	LYS A	321		71.781	11.150	125.867	1.00	43.35
ATOM	2552	CA	LYS A			72.059		124.969	1.00	43.53
	2553		LYS A			73.561		124.879		42.78
MOTA		CB								
MOTA	2554	CG	LYS A			74.238	9.340	126.180		49.38
MOTA	2555	CD	LYS A	321				127.307		
MOTA	2556	CE	LYS A	321		72.978	10.497	128.129	1.00	53.81
ATOM	2557	NZ	LYS A			72.660	9.245	128.883	1.00	54.17
ATOM	2558	С	LYS A			71.407		125.345		41.52
						70.954		126.469		41.98
ATOM	2559	0	LYS A							
MOTA	2560	N	LEU A			71.378		124.382		38.64
MOTA	2561	CA	LEU A	322		70.815		124.613		40.46
MOTA	2562	CB	LEU A	322		70.442	5.845	123.289	1.00	42.22
ATOM	2563	CG	LEU A			69.595	6.632	122.287		42.92
						69.204		121.125		41.13
ATOM	2564		LEU A							
MOTA	256.5		LEU A			68.361		122.967		44.41
ATOM	2566	С	LEU A			71.918		125.268		41.36
ATOM	2567	0	LEU A	322		73.079	5.825	124.884	1.00	44.16
ATOM	2568	N	ASN A			71.579	4.894	126.265		39.89
			ASN A			72.594		126.895		40.96
MOTA	2569	CA						128.259		43.00
MOTA	2570	CB	ASN A			72.136				
ATOM	2571	CG	ASN A			70.787		128.202		45.59
ATOM	2572		ASN A			70.482		127.264		45.71
ATOM	2573		ASN A			69.975	3.114	129.224	1.00	48.08
ATOM	2574	C		323		72.828	2.894	125.954	1.00	44.88
WI OUT		_								

			J		
ATOM	2575 0		72.124		1.00 46.41 1.00 45.98
ATOM	2576 N		73.809		1.00 49.82
MOTA	2577 C		74.122		1.00 53.88
MOTA	2578 C		75.386 75.960		1.00 60.09
ATCM	2579 C		75.344	-1.723 124.550	1.00 66.99
MOTA		D1 ASN A 324 D2 ASN A 324	77.143	-0.386 124.378	1.00 58.06
MOTA	2581 N 2582 C		72.979	-0.070 125.267	1.00 47.12
MOTA MOTA	2583 0		72.784	-0.644 124.197	1.00 43.63
ATOM	2584 N		72.220	-0.276 126.339	1.00 46.39
ATOM		A LYS A 325	71.106	-1.221 126.318	1.00 46.76 1.00 47.65
MOTA	2586 C	B LYS A 325	70.428	-1.328 127.695 -1.837 128.858	1.00 47.03
MOTA		G LYS A 325	71.292 72.160	-0.750 129.526	1.00 56.87
MOTA		D LYS A 325 E LYS A 325.	73.329	-0.289 128.671	1.00 57.45
MOTA		TE LYS A 325.	74.091	0.816 129.307	1.00 58.32
MOTA		LYS A 325.	70.062	-0.791 125.296	1.00 45.17
ATOM ATOM		LYS A 325	69.474	-1.625 124.601	1.00 42.73
MOTA		N ALA A 326	69.832	0.514 125.213	1.00 41.43
ATOM	2594	CA ALA A 326	68.861	1.054 124.276 2.508 124.616	1.00 42.80
MOTA		CB ALA A 326	68.562 69.365	0.940 122.838	1.00 43.80
MOTA		C ALA A 326	68.595	0.625 121.926	1.00 45.17
MOTA		O ALA A 326 N LYS A 327	70.658	1.191 122.637	1.00 43.46
ATOM		N LYS A 327 CA LYS A 327	71.235	1.120 121.296	1.00 43.26
MOTA MOTA		CB LYS A 327	72.723	1.484 121.311	1.00 44.77
ATOM		CG LYS A 327	73.037	2.892 121.800	1.00 50.87- 1.00 52.74
ATOM	2602	CD LYS A 327	74.544	3.168 121.747 4.508 122.377	1.00 51.30
ATOM		CE LYS A 327	74.916 74.256	5.670 121.715	1.00 52.72
MOTA		NZ LYS A 327 C LYS A 327	71.063	-0.274 120.728	1.00 41.29
MOTA		C LYS A 327 O LYS A 327	70.625	-0.437 119.592	1.00 38.83
MOTA ATOM		N GLU A 328	71.403	-1.278 121.526	1.00 39.95
ATOM	-	CA GLU A 328	71.276	-2.660.121.090	1.00 42.40 1.00 43.05
ATOM		CB GLU A 328	71.875	-3.605 122.135 -3.432 122.295	1.00 43.03
ATOM		CG GLU A 328	73.369 74.096	-3.529 120.963	1.00 52.11
MOTA		CD GLU A 328 OE1 GLU A 328	73.972	-4.574 120.291	1.00 55.44
MOTA		OE1 GLU A 328 OE2 GLU A 328	74.785	-2.558 120.584	1.00 51.64
MOTA ATOM	2613 2614	C GLU A 328	69.825	-3.030 120.818	1.00 39.51
ATOM	2615	O GLU A 328	69.536	-3.842 119.939	1.00 37.35 1.00 36.37
ATOM	2616	N LEU A 329	68.911	-2.444 121.582 -2.717 121.380	1.00 36.03
Mota	2617	CA LEU A 329	67.496 66.646	-1.958 122.400	1.00 34.66
atom	2618	CB LEU A 329 CG LEU A 329	65.133	-2.110 122.213	1.00 33.88
ATOM	2619	CG LEU A 329 CD1 LEU A 329	64.755	-3.572 122.351	1.00 36.21
atom atom	2620 2621	CD2 LEU A 329	64.391	-1.268 123.240	1.00 34.00
ATOM	2622	C .LEU A 329	67.120	-2.268 119.971	1.00 33.64 1.00 31.29
ATOM	2623	O LEU A 329	66.655	-3.061 119.162 -0.990 119.681	1.00 33.78
ATOM	2624	N LEU A 330	67.333	-0.461 118.366	1.00 36.38
ATOM	2625	CA LEU A 330	67.004 67.326	1.033 118.294	1.00 30.74
MOTA	2626	CB LEU A 330 CG LEU A 330	66.514	1.958 119.205	1.00 31.51
MOTA	2627 2628	CG LEU A 330 CD1 LEU A 330	66.857	3.404 118.894	1.00 22.11
ATOM ATOM	2629	CD2 LEU A 330	65.028	1.728 118.978	1.00 29.69 1.00 36.49
ATOM	2630	C LEU A 330	67.729		
ATOM	2631	O LEU A 330	67.142		
ATOM	2632	N LYS A 331	69.005 69.786		1.00 41.32
ATCM	2633	CA LYS A 331	71.256	-2.272 116.874	1.00 44.74
ATOM	2634	CB LYS A 331 CG LYS A 331	71.954	-0.919 116.869	1.00 44.68
ATOM	2635 2636	CG LYS A 331	73.350	-0.964 117.498	1.00 51.42
ATOM	2637	CE LYS A 331	74.315	-1.889 116.765	1.00 53./1
atom atom	2638	NZ LYS A 331	73.928	_3.327 116.855	
ATOM	2639	C LYS A 331	69.258		
ATOM	40	O LYS A 331	69.310	-4.000 113.042	

				222	68.734	4 270	117.200	1.00 41.56
MOTA	2641	N	SER A					1.00 46.88
ATOM	2642	CA	SER A		68.226		117.039	
ATOM	2643	CB	SER A	332	68.045		118.400	1.00 42.19
ATOM	2644	OG	SER A	332	66.959	-5.714	119.096	1.00 39.55
	2645	c	SER A		66.896	-5.687	116.297	1.00 48.58
ATOM					66.393		116.017	1.00 45.78
MOTA	2646	0	SER A				115.979	1.00 48.27
MOTA	2647	И	ILE A		66.325			
MOTA	2648	CA	ILE A		65.041		115.292	1.00 51.82
MOTA	2649	CB	ILE A	333	64.378		115.402	1.00 52.16
ATOM	2650	CG2	ILE A		63.038	-3.122	114.683	1.00 52.64
MOTA	2651	CG1	ILE A		64.163	-2.765	116.871	1.00 52.70
			ILE A		63.550		117.077	1.00 56.70
MOTA	2652	CD1			65.112		113.820	1.00 53.43
MOTA	2653	С	ILE A					1.00 56.45
MOTA	2654	0	ILE A		66.118		113.145	
MOTA	2655	N	ASP A	334	64.016		113.344	1.00 55.53
ATOM	2656	CA	ASP A	334	63.865	-5.892	111.962	1.00 59.58
MOTA	2657	CB	ASP A	334	62.845	-7.040	111.918	1.00 62.69
	2658	CG	ASP A		61.546	-6.712	112.664	1.00 66.23
ATOM			ASP A		60.795	-5.814	112.227	1.00 63.25
MOTA	2659				61.277	-7.354		1.00 63.45
MOTA	2660		ASP A					1.00 60.81
MOTA	2661	С	ASP A		63.385	-4.705		
ATOM	2662	0	ASP A		62.239	-4.673	110.681	1.00 59.47
ATOM	2663	N	PHE A	335	64.266	-3.736	110.889	1.00 60.00
ATOM	2664	CA	PHE A		63.864	-2.545	110.147	1.00 59.37
	2665	CB	PHE A		64.247	-1.298	110.952	1.00 53.38
ATOM		CG	PHE A		63.895	-0.013	110.275	1.00 49.13
MOTA	2666				62.618	0.189	109.770	1.00 44.32
MOTA	2667		PHE A			0.103	110.127	1.00 49.91
MOTA	2668		PHE A		64.845			
ATOM	2669		PHE A		62.288	1.373	109.122	1.00 42.74
ATOM	2670	CE2	PHE A		64.526	2.180	109.483	1.00 46.40
ATOM	2671	CZ	PHE A	335	63.244	2.370	108.978	1.00 42.77
ATOM	2672	c	PHE A		64.334	-2.399	108.696	1.00 60.85
	2673	ō	PHE A		63.689	-2.914	107.785	1.00 66.28
ATOM			GLU A		65.430	-1:671	108.493	1.00 57.40
MOTA	2674	N				-1.411	107.174	1.00 58.96
MOTA	2675	CA	GLU A		66.015			1.00 62.66
ATOM	2676	CB	GLU A		65.782	-2.579	106.211	
MOTA	2677	CG	GLU A		66.417	-2.377	104.846	1.00 68.51
ATOM	2678	CD	GLU A	336	66.277		103.943	1.00 73.21
MOTA	2679	OE1	GLU A		66.753	-4.678	104.333	1.00 73.30
ATOM	2680		GLU A		65.697	-3.457	102.843	1.00 75.74
ATOM	2681	C	GLU A		65.460	-0.124	106.576	1.00 55.70
			GLU A		64.281		106.253	1.00 55.28
MOTA	2682	0			66.338	0.857	106.432	1.00 54.75
MOTA	2683	N	GLU A			2.167	105.905	1.00 55.99
MOTA	2684	CA	GLU A		65.986	2.107		1.00 51.75
MOTA	2685	CB	GLU A		67.221		105.983	
MOTA	2686	CG	GLU A	337	66.926	4.536		1 00 52.28
ATOM	2687	CD	GLU A	337	66.184		107.366	:.00 43.72
ATOM	2688	OE1	GLU A	337	66.705		108.474	00 42.21
ATOM	2589	OF2	GLU A	337	65.072	5.425	107.256	1.00 47.31
	2690	C	GLU A	337	65.485		104.460	1.00 57.56
ATOM					66.087		103.639	1.00 58.29
ATOM	2691	0	GLU A				104.151	1.00 60.26
ATOM	3692	11	PHE A		64.385	2.743	104.131	
MOTA	2693	CA	PHE A		63.814		102.805	1.00 61.69
ATOM	2694	CB	PHE A	338	62.561	3.582	102.723	1.00 60.86
ATOM	2695	CG	PHE A		61.845		101.401	1.00 61.92
	2696		PHE A		61.054	2.391	101.094	1.00 62.99
MOTA		CD3	PHE A	:338	61.970	4.508	100.458	1.00 62.74
MOTA	2697	CDZ	THE M	330	60.392	2.302		1.00 65.11
MOTA	2698	CE1	PHE A	330				1.00 64.62
MOTA	2699		PHE A	. 338	61.315	4.428		1.00 63.87
ATOM	2700	CZ	PHE A		60.523	3.322	98.934	
MOTA	2701	С	PHE A		64.818	3.208	101.773	1.00 64.33
ATOM	2702	0	PHE A		64.803	2.781	100.616	1.00 62.45
ATOM .	2703	N	ASP A		65.677		102.194	1.00 64.11
	2704	CA	ASP A	339	66.689	4.684	101.310	1.00 67.42
ATOM			ASP A	330	66.565	6.206	101.248	1.00 67.20
ATCM	2705	CB			67.647	6 A38	100.402	1.00 68.03
ATOM	2706	CG	ASP A	223	37.047	5.650		

Figure 18-42

6.432 99.229 1.00 72.20 OD1 ASP A 339 67.796 2707 MOTA 1.00 64.15 68.346 7.740 100.904 OD2 ASP A 339 2708 MOTA 4.295 101.763 1.00 68.73 68.088 ASP A 339 2709 С MOTA 1.00 68.17 4.628 102.869 68.511 ASP A 339 2710 0 MOTA 1.00 71.90 3.588 100.888 68.796 ASP A 340 2711 N ATOM 1.00 73.59 3-.111 101.149 70.151 ASP A 340 2712 CA ATOM 1.00 75.47 99.848 70.778 2.601 ASP A 340 CB 2713 MOTA 1.00 76.03 69.953 99.195 1.511 ASP A 340 CG 2714 ATOM 1.00 76.90 99.823 69.761 0.449 OD1 ASP A 340 2715 ATOM 1.00 80.23 98.054 OD2 ASP A 340 69.492 1.718 2716 ATOM 1.00 72.77 4.155 101.766 . 71.069 ASP A 340 ATOM 2717 1.00 73.08 3.946 102.845 71.618 ASP A 340 2718 0 MOTA 5.275 101.074 1.00 73.15 71.242 72.112 GLU A 341 2719 N MOTA 1.00 74.56 6.341 101.557 GLU A 341 2720 CA MOTA 1.00 77.06 6.924 100.390 72.917 GLU A 341 2721 CB 8.034 100.792 MOTA 1.00 82.57 GLU A 341 73.878 2722 CG ATOM 1.00 85.34 74.924 75.718 74.951 7.571 101.794 GLU A 341 2723 CD ATOM 1.00 86.64 6.669 101.450 OE1 GLU A 341 2724 ATOM 1.00 85.37 8.106 102.924 OE2 GLU A 341 2725 1.00 72.47 1.00 76.75 ATOM 7.453 102.245 71.327 GLU A 341 GLU A 341 2726 С MOTA 8.364 101.589 70.822 0 2727 1.00 67.86 ATOM 7.381 103.566 71.228 VAL A 342 2728 N MOTA 1.00 64.84 8.393 104.323 7.853 104.850 70.503 VAL A 342 2729 CA MOTA 1.00 66.27 69.160 VAL A 342 2730 CB 1.00 67.95 MOTA 7.494 103.701 68.256 CG1 VAL A 342 CG2 VAL A 342 2731 MOTA 1.00 65.37 6.637 105.722 69.400 2732 MOTA 1.00 61.75 8.871 105.520 VAL A 342 71.305 2733 С MOTA 1.00 64.14 71.375 10.066 105.795 VAL A 342 2734 0 MOTA 1.00 56.79 7.925 106.225 71.912 ASP A 343 2735 N ATOM 1.00 54.53 8.229 107.417 72.692 ASP A 343 2736 CA 1.00 56.31 1.00 58.81 ATOM-9.340 107.158 73.707 ASP A 343 CB 2737 MOTA 9.660 108.388 ASP A 343 74.531 2738 CG 1.00 65.36 ATOM 75.298 10.644,108.357 OD1 ASP A 343 MOTA 2739 1.00 54.29 74.420 71.765 8.918 109.387 OD2 ASP A 343 2740 MOTA 1.00 50.70 8.675 108.534 ASP A 343 2741 С 1.00 46.00 MOTA 9.859 108.651 ASP A 343 ARG A 344 71.442 0 2742 MOTA 7.717 109.341 1.00 46.20 71.328 2743 N ATOM 1.00 41.18 8.004 110.463 70.452 ARG A 344 2744 CA ATOM 7.268 110.299 1.00 39.81 69.121 ARG A 344 2745 CB MOTA 1.00 35.08 7.711 109.098 ARG A 344 68.289 2746 CG 1.00 28.37 1.00 30.90 MOTA 9.211 109.121 68.036 ARG A 344 ARG A 344 2747 CD MOTA 9.645 108.036 67.157 2748 NE 1.00 31.05 MOTA 10.909 107.649 ARG A 344 67.013 2749 CZMOTA 11.874 108.258 1.00 30.49 67.693 66.201 NH1 ARG A 344 2750 1.00 31.76 MOTA 11.212 106.646 NH2 ARG A 344 2751 1.00 38.46 MOTA 7.561 111.742 ARG A 344 ARG A 344 71.147 2752 C 1.00 34.99 MOTA 7.370 112.773 70.516 2753 0 1.00 33.97 ATOM 7.418 111.662 72.464 SER A 345 2754 N MOTA 6.981 112.795 1.00 33.68 73.261 SER A 345 2755 CA ATOM 1.00 39.11 6.972 112.404 74.742 SER A 345 2756 CB ATOM 1.00 42.80 8.260 111.990 75.163 SER A 345 2757 OG MOTA 7.826 114.053 1.00 31.83 73.054 SER A 345 2758 C 1.00 24.35 MOTA 7.314 115.167 73.100 SER A 345 2759 0 1.00 33.10 ATOM 9.119 113.877 72.819 TYR A 346 2760 N ATOM 10.003 115.015 1.00 34.50 72.614 72.397 TYR A 346 2761 CA 1.00 35.16 MOTA 11.437 114.522 TYR A 346 2762 CB MOTA 1.00 39.69 11.615 113.659 71.168 TYR A 346 CG 2763 MOTA 11.814 114.227 1.00 36.57 69.909 CD1 TYR A 346 2764 1.00 40.23 MOTA 11.940 113.424 68.767 CEL TYR A 346 2765 1.00 39.04 ATOM 11.544 112.270 71.260 CD2 TYR A 346 2766 11.667 111.463 1.00 38.65 ATOM 70.131 CE2 TYR A 346 ATOM 2767 11.864 112.041 1.00 37.64 TYR A 346 68.890 2768 CZ ATOM 1.00 32.48 11.982 111.234 67.776 TYR A 346 OH 2769 1.00 37.72 9.560 115.874 ATOM 71.432 TYR A 346 2770 C 1.00 35.48 MOTA 9.829 117.074 71.396 TYR A 346 0 2771 8.869 115.265 1.00 35.36 ATCM 70.472 MET A 347 N 2772 ATCM

159/263

ATOM 2773 CA MET A 347 69.295 8.418 116.004 1.00 36.97 ATOM 2774 CB MET A 347 68.226 7.868 115.052 1.00 33.45 ATOM 2775 CC MET A 347 67.853 8.809 113.921 1.00 28.09 ATOM 2776 CB MET A 347 67.853 8.809 113.921 1.00 28.09 ATOM 2777 CE MET A 347 67.058 8.809 113.921 1.00 39.25 ATOM 2790 CP MET A 347 69.632 7.363 117.055 1.00 34.67 ATOM 2790 N LEU A 348 70.747 6.663 118.015 1.00 34.67 ATOM 2780 N LEU A 348 70.747 6.663 118.015 1.00 34.57 ATOM 2780 N LEU A 348 71.847 1.841 1.476 117.152 1.00 34.15 ATOM 2782 CB LEU A 348 71.841 4.476 117.152 1.00 34.15 ATOM 2783 CG LEU A 348 71.065 3.655 116.121 1.00 35.61 ATOM 2786 C LEU A 348 72.010 2.660 115.469 1.00 35.65 ATOM 2786 C LEU A 348 72.056 2.935 116.788 1.00 37.10 ATOM 2786 C LEU A 348 72.583 5.513 119.745 1.00 37.75 ATOM 2786 C LEU A 348 72.583 5.513 119.745 1.00 37.10 ATOM 2788 N GLU A 349 72.295 7.541 118.801 1.00 37.10 ATOM 2780 CB GLU A 349 72.295 7.541 118.801 1.00 37.75 ATOM 2790 CB GLU A 349 74.150 9.136 118.948 1.00 47.04 ATOM 2790 CB GLU A 349 74.942 8.221 119.726 1.00 42.34 ATOM 2790 CB GLU A 349 74.942 8.221 119.726 1.00 42.86 ATOM 2791 CG GLU A 349 74.942 8.221 119.726 1.00 42.86 ATOM 2792 CD GLU A 349 75.828 7.325 118.110 1.00 53.27 ATOM 2795 CG LEU A 348 75.828 7.325 118.110 1.00 53.27 ATOM 2796 C GLU A 349 75.828 7.325 118.410 1.00 53.27 ATOM 2797 CG GLU A 349 75.828 7.325 118.410 1.00 53.27 ATOM 2799 CG GLU A 349 75.669 1.00 41.72 ATOM 2797 CG GLU A 349 75.669 1.00 41.72 ATOM 2797 CG GLU A 349 75.669 1.00 41.72 ATOM 2797 CG GLU A 349 75.669 1.00 41.72 ATOM 2797 CG GLU A 349 75.669 1.00 41.72 ATOM 2798 CA THR A 350 70.992 10.976 121.135 1.00 42.86 ATOM 2799 CB GLU A 349 75.669 1.00 41.72 ATOM 2796 CG GLU A 349 75.669 1.00 41.72 ATOM 2797 CG GLU A 349 75.669 1.00 41.72 ATOM 2798 CA THR A 350 70.992 10.976 121.135 1.00 42.86 ATOM 2798 CB GLU A 351 66.6676 11.90 41.72 ATOM 2808 CD LU EU A 351 66.676 11.91 1.92 2.91 1.00 42.27 ATOM 2808 CD LU EU A 351 66.676 11.91 1.92 2.91 1.00 41.72 ATOM 2808 CD LU EU A 351 66.676 11.91 1.10 1.00 41.72 ATOM 2808 CD LU EU									
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ATOM 2795 C GLU A 349 75.669 6.166 117.963 1.00 59.17 ATOM 2796 O GLU A 349 72.458 9.080 120.752 1.00 41.72 ATOM 2797 N THR A 350 71.716 10.067 120.261 1.00 42.27 ATOM 2798 CA THR A 350 71.716 10.067 120.261 1.00 40.78 ATOM 2799 CB THR A 350 71.316 10.976 121.135 1.00 40.78 ATOM 2800 OC1 THR A 350 71.359 12.733 119.508 1.00 43.25 ATOM 2801 CC2 THR A 350 71.359 12.733 119.508 1.00 44.11 ATOM 2802 C THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2809 CD LEU A 351 66.679 12.342 121.294 1.00 39.29 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 39.79 ATOM 2811 O LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2812 N LYS A 352 66.676 11.92 13.544 121.525 1.00 34.79 ATOM 2813 CA LYS A 352 66.676 11.92 13.544 121.525 1.00 34.79 ATOM 2816 CD LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2817 C LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2818 CD LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2819 C LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2816 CD LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2817 C LYS A 352 66.676 15.911 121.835 1.00 36.48 ATOM 2818 CD LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2819 C LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2820 C LYS A 353 66.697 15.993 118.530 1.00 37.69 ATOM 2821 C A SP A 353 66.890 7.991 1.89 119.601 1.00 42.08 ATOM 2822 CA ASP A 353 66.890 7.991 11.89 119.601 1.00 43.53 ATOM 2823 CB ASP A 353 66.890 7.861 119.601 1.00 43.53 ATOM 2824 CG ASP A 353 66.993 15.075 116.110 1.00 43.53 ATOM 2827 C ASP A 353 66.991 15.196 115.094 1.00 37.28 ATOM 2828 O D LYS A 352 66.691 15.993 119.601 1.00 43.53 ATOM 2829 N PRO A 354 66.299 19.106 115.094 1.00 37.28 ATOM 2820 C LYS A 353 66.993 1.00 115.094 1.00 37.28 ATOM 2831 CA PRO A 354 69.904 77						76.68	1 7.619	119.279	1.00 59.59
ATOM 2795 C GLU A 349 72.458 9.080 120.752 1.00 41.72 ATOM 2796 O GLU A 349 72.564 8.852 121.959 1.00 42.27 ATOM 2797 N THR A 350 71.716 10.067 120.261 1.00 37.05 ATOM 2798 CA THR A 350 70.992 10.976 121.135 1.00 40.78 ATOM 2799 CB THR A 350 71.359 12.733 119.508 1.00 41.69 ATOM 2800 OG1 THR A 350 72.918 12.575 121.325 1.00 41.69 ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 41.47 ATOM 2802 C THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2805 CA LEU A 351 66.760 11.291 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.91 ATOM 2807 CG LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2809 CD2 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2810 C LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2810 C LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2810 C LEU A 351 66.752 1.342 121.294 1.00 37.76 ATOM 2810 C LEU A 351 66.791 12.149 120.512 1.00 37.76 ATOM 2811 O LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2812 N LYS A 352 66.671 12.149 120.512 1.00 34.86 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 34.79 ATOM 2814 CB LYS A 352 66.651 14.724 120.870 1.00 34.73 ATOM 2815 CG LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2816 CD LYS A 352 66.652 12.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2818 NZ LYS A 352 66.697 15.293 118.530 1.00 37.69 ATOM 2820 C LYS A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2821 N ASP A 353 66.697 15.293 118.530 1.00 38.64 ATOM 2822 CA ASP A 353 66.697 15.293 118.530 1.00 38.64 ATOM 2823 CB ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2824 CG ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2825 ODD ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2826 OD ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2827 C ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2828 O ASP A 353 66.697 15.297 1.00 40.75 ATOM 2829 N PRO A 354 69.907 17.005 115.299 1.00 40.75 ATOM 2830 CD PRO A 354 69.907 17.005 115.299 1.00 40.75 AT			OE2	GLU A	349	75.66	9 6.166	117.963	1.00 59.17
ATOM 2796 O GLU A 349 72.564 8.852 121.959 1.00 42.27 ATOM 2797 N THR A 350 71.716 10.067 120.261 1.00 37.05 ATOM 2798 CA THR A 350 71.976 120.976 121.135 1.00 40.78 ATOM 2799 CB THR A 350 71.922 10.976 121.135 1.00 40.78 ATOM 2800 OG1 THR A 350 71.359 12.733 119.508 1.00 41.69 ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 44.11 ATOM 2802 C THR A 350 69.474 10.911 120.968 1.00 41.47 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.91 ATOM 2806 CB LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.290 10.118 125.677 1.00 40.11 ATOM 2809 CD2 LEU A 351 65.813 8.920 123.544 1.00 39.29 ATOM 2810 C LEU A 351 66.290 10.118 125.677 1.00 40.11 ATOM 2810 C LEU A 351 66.629 10.118 125.677 1.00 37.76 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 65.747 12.149 120.512 1.00 37.76 ATOM 2812 N LYS A 352 66.651 14.724 120.812 1.00 37.76 ATOM 2813 CA LYS A 352 66.651 14.724 120.812 1.00 38.73 ATOM 2814 CB LYS A 352 66.656 1.5911 121.835 1.00 36.48 ATOM 2815 CG LYS A 352 66.656 1.5911 121.835 1.00 36.48 ATOM 2816 CD LYS A 352 66.657 1.5911 121.835 1.00 37.69 ATOM 2817 CE LYS A 352 66.656 1.5911 121.835 1.00 36.48 ATOM 2818 NZ LYS A 352 66.656 1.5911 121.835 1.00 37.69 ATOM 2819 C LYS A 352 66.657 1.5911 121.835 1.00 37.69 ATOM 2819 C LYS A 352 66.656 1.5911 121.835 1.00 37.69 ATOM 2819 C LYS A 352 66.657 15.911 121.835 1.00 38.73 ATOM 2819 C LYS A 352 66.657 15.911 121.835 1.00 38.73 ATOM 2819 C LYS A 352 66.657 15.911 121.835 1.00 37.69 ATOM 2820 O LYS A 352 66.657 15.911 121.835 1.00 38.73 ATOM 2821 N ASP A 353 66.697 15.293 118.500 1.00 37.69 ATOM 2820 C D ASP A 353 66.593 17.901 123.845 1.00 39.89 ATOM 2821 C B ASP A 353 66.890 17.861 118.092 1.00 35.24 ATOM 2823 CB ASP A 353 66.890 17.861 118.092 1.00 35.66 ATOM 2823 CB ASP A 353 66.890 17.861 118.092 1.00 37.28 ATOM 2824 C B ASP A 353 66.890 17.861 118.092 1.00 37.28 ATOM 2825 O D ASP A 353 66.890 17.861 118.								120.752	1.00 41.72
ATOM 2797 N THR A 350 71.716 10.067 120.261 1.00 37.05 ATOM 2799 CB THR A 350 70.992 10.976 121.135 1.00 40.78 ATOM 2799 CB THR A 350 71.468 12.418 120.900 1.00 41.69 ATOM 2801 CG2 THR A 350 71.359 12.733 119.508 1.00 43.25 ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 44.11 ATOM 2802 C THR A 350 69.474 10.911 120.968 1.00 41.47 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2807 CG LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2808 CD1 LEU A 351 66.763 11.210 123.487 1.00 37.67 ATOM 2809 CD2 LEU A 351 65.813 8.920 124.251 1.00 37.67 ATOM 2810 C LEU A 351 65.813 8.920 123.544 1.00 37.76 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 66.679 12.342 121.294 1.00 34.86 ATOM 2812 N LYS A 352 66.651 14.724 120.870 1.00 34.79 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 34.79 ATOM 2813 CA LYS A 352 66.6676 15.911 121.835 1.00 36.48 ATOM 2815 CG LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2816 CD LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.202 16.701 124.196 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.202 16.701 124.196 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 65.342 18.880 124.972 1.00 52.70 ATOM 2820 O LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2821 N ASP A 353 66.593 17.901 123.845 1.00 49.81 ATOM 2822 CA ASP A 353 66.697 15.293 118.530 1.00 36.21 ATOM 2822 CA ASP A 353 66.890 17.861 118.092 1.00 33.66 ATOM 2822 CA ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2823 CB ASP A 353 66.890 17.861 118.092 1.00 35.66 ATOM 2823 CB ASP A 353 66.890 17.861 118.092 1.00 37.28 ATOM 2823 CB PRO A 354 68.426 19.145 116.179 1.00 38.41 ATOM 2833 CB PRO A 354 66.299 19.106 115.094 1.00 37.28 ATOM 2833 CB PRO A 354 66.299 19.106 115.094 1.00 37.28 ATOM 2833 CB PRO A 354 66.299 19.106		2796				72.56	4 8.852	121.959	1.00 42.27
ATOM 2798 CA THR A 350 70.992 10.976 121.135 1.00 40.78 ATOM 2799 CB THR A 350 71.468 12.418 120.900 1.00 41.69 ATOM 2800 OG1 THR A 350 71.359 12.733 119.508 1.00 43.25 ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 44.11 ATOM 2803 O THR A 350 69.474 10.911 120.968 1.00 41.47 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2805 CA LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2806 CB LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2808 CD1 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.290 10.118 125.677 1.00 40.11 ATOM 2809 CD2 LEU A 351 66.290 10.18 125.677 1.00 40.11 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 66.6679 12.342 121.294 1.00 37.76 ATOM 2812 N LYS A 352 66.651 14.724 120.870 1.00 34.79 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 34.79 ATOM 2813 CA LYS A 352 66.667 15.911 121.835 1.00 34.79 ATOM 2815 CG LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2816 CD LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2818 NZ LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2820 O LYS A 353 66.804 15.008 119.601 1.00 38.77 ATOM 2820 CD LYS A 353 66.804 15.008 119.601 1.00 38.77 ATOM 2820 CD ASP A 353 66.804 15.008 119.601 1.00 38.70 ATOM 2820 CD ASP A 353 66.804 15.008 119.601 1.00 38.70 ATOM 2820 CD ASP A 353 66.804 15.008 119.601 1.00 38.70 ATOM 2820 CD ASP A 353 66.804 17.066 116.302 1.00 47.99 ATOM 2820 CD ASP A 353 66.804 17.066 116.302 1.00 40.75 ATOM 2820 CD ASP A 353 66.804 17.066 116.302 1.00 40.05 ATOM 2820 CD PRO A 354 68.426 19.14			N	THR A	350	71.71	6 10.067	120.261	1.00 37.05
ATOM 2800 OG1 THR A 350 71.359 12.733 119.508 1.00 43.25 ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 44.11 ATOM 2802 C THR A 350 69.474 10.911 120.958 1.00 44.11 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2806 CB LEU A 351 66.752 9.890 124.251 1.00 37.59 ATOM 2807 CG LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2809 CD2 LEU A 351 66.679 12.342 121.294 1.00 39.29 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 39.29 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 65.747 12.149 120.512 1.00 34.86 ATOM 2812 N LYS A 352 66.679 12.342 121.294 1.00 37.76 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 38.73 ATOM 2814 CB LYS A 352 66.651 15.911 121.835 1.00 36.48 ATOM 2815 CG LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2816 CD LYS A 352 66.602 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.302 16.701 124.196 1.00 43.22 ATOM 2818 NZ LYS A 352 65.342 18.880 124.972 1.00 52.70 ATOM 2820 O LYS A 352 66.697 15.293 118.530 1.00 36.21 ATOM 2821 N ASP A 353 66.593 17.901 123.854 1.00 49.81 ATOM 2820 C LYS A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2821 N ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2822 CA ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2820 O LYS A 353 66.598 15.368 116.211 1.00 47.99 ATOM 2821 N ASP A 353 66.890 17.861 118.092 1.00 39.89 ATOM 2822 CA ASP A 353 66.890 17.861 118.092 1.00 39.29 ATOM 2823 CB ASP A 353 66.890 17.861 118.092 1.00 39.29 ATOM 2824 CG ASP A 353 66.890 17.861 118.092 1.00 39.80 ATOM 2825 OD1 ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2826 OD2 ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2827 C ASP A 353 66.890 17.861 118.092 1.00 37.28 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.28 ATOM 2829 N PRO A 354 68.944 17.696 116.302 1.00 40.05 ATOM 2830 CD PRO A 354 69.990 19.106 115.094 1.00 37.28 ATOM 2831 CA PRO A 354 66.999 19.106 115.09		2798	CA	THR A	350	70.99	2 10.976	121.135	1.00 40.78
ATOM 2801 CG2 THR A 350 72.918 12.575 121.325 1.00 44.11 ATOM 2802 C THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.760 11.199 122.056 1.00 35.91 ATOM 2806 CB LEU A 351 66.763 11.210 123.487 1.00 35.94 ATOM 2807 CG LEU A 351 66.763 11.210 123.487 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD2 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2809 CD2 LEU A 351 66.679 12.342 121.294 1.00 39.29 ATOM 2810 C LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2811 O LEU A 351 66.679 12.342 121.294 1.00 37.76 ATOM 2812 N LYS A 352 66.651 14.724 120.512 1.00 34.79 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 38.73 ATOM 2814 CB LYS A 352 66.651 14.724 120.870 1.00 38.73 ATOM 2816 CD LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2818 NZ LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.651 14.724 120.870 1.00 38.77 ATOM 2819 C LYS A 352 66.652 15.063 119.610 1.00 38.77 ATOM 2819 C LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.5349 17.901 123.845 1.00 37.69 ATOM 2820 O LYS A 352 66.5349 17.901 123.845 1.00 37.69 ATOM 2821 N ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2822 CA ASP A 353 66.592 15.063 119.610 1.00 38.77 ATOM 2820 O LYS A 352 66.532 15.063 119.610 1.00 38.77 ATOM 2820 O LYS A 353 66.593 15.368 116.211 1.00 47.99 ATOM 2825 OD1 ASP A 353 66.592 15.063 119.610 1.00 37.69 ATOM 2826 OD2 ASP A 353 66.592 17.861 118.092 1.00 37.69 ATOM 2827 C ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.69 ATOM 2828 O ASP A 353 66.890 17.861 118.092 1.00 37.87 ATOM 2830 CD PRO A 354 69.947 17.005 115.279 1	MOTA	2799	CB	THR A	350	71.46	8 12.418	120.900	1.00 41.69
ATOM 2802 C THR A 350 69.474 10.911 120.968 1.00 41.47 ATOM 2803 O THR A 350 68.968 10.608 119.884 1.00 39.72 ATOM 2804 N LEU A 351 68.760 11.199 122.054 1.00 38.68 ATOM 2805 CA LEU A 351 66.763 11.210 123.487 1.00 35.91 ATOM 2806 CB LEU A 351 66.763 11.210 123.487 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2808 CD1 LEU A 351 66.752 9.890 124.251 1.00 37.67 ATOM 2809 CD2 LEU A 351 66.813 8.920 123.544 1.00 39.29 ATOM 2810 C LEU A 351 65.813 8.920 123.544 1.00 37.76 ATOM 2811 O LEU A 351 65.813 8.920 123.544 1.00 37.76 ATOM 2812 N LYS A 352 66.679 12.342 121.294 1.00 34.86 ATOM 2812 N LYS A 352 66.671 12.149 120.512 1.00 34.86 ATOM 2813 CA LYS A 352 66.651 14.724 120.870 1.00 38.73 ATOM 2814 CB LYS A 352 66.666 15.911 121.835 1.00 36.48 ATOM 2816 CD LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2817 CE LYS A 352 66.062 15.580 123.179 1.00 43.22 ATOM 2819 C LYS A 352 65.349 17.901 123.845 1.00 49.81 ATOM 2819 C LYS A 352 65.349 17.901 123.845 1.00 49.81 ATOM 2819 C LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2819 C LYS A 352 66.667 15.911 121.835 1.00 36.48 ATOM 2817 CE LYS A 352 66.062 15.580 123.179 1.00 42.08 ATOM 2819 C LYS A 352 66.5349 17.901 123.845 1.00 49.81 ATOM 2820 O LYS A 352 66.667 15.911 124.196 1.00 36.21 ATOM 2821 N ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2820 C ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2821 C ASP A 353 66.697 15.293 118.530 1.00 37.69 ATOM 2822 C A ASP A 353 66.593 17.647 117.286 1.00 39.20 ATOM 2823 C B ASP A 353 66.890 17.861 118.092 1.00 40.05 ATOM 2820 C D ASP A 353 66.890 17.861 118.092 1.00 40.05 ATOM 2830 C D PRO A 354 69.047 17.005 115.279 1.00 40.05 ATOM 2831 CA PRO A 354 69.947 17.005 115.689 1.00 37.87 ATOM 2832 C B PRO A 354 69.947 17.005 115.094 1.00 39.41 ATOM 2833 C B PRO A 354 69.949 19.106 115.094 1.00 37.87 ATOM 2835 C B PRO A 354 69.99 19.106 115.094 1.00 37.87 ATOM 2835 C B PRO A 354 69.99 19.106 115.094 1.00 37.87 ATOM 2835 C B PRO A 354 69.99 19.106 115.094 1.00 37.87 ATOM 2835 C B PRO A 354 69.99 19.106 115.	ATOM	2800	OG1	THR A	350	71.35	9 12.733		
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ATOM 2833 CG PRO A 354 69.190 18.095 114.225 1.00 39.41 ATOM 2834 C PRO A 354 67.144 19.780 115.689 1.00 37.28 ATOM 2835 O PRO A 354 66.299 19.106 115.094 1.00 31.87 ATOM 2836 N TRP A 355 66.993 21.074 115.934 1.00 37.87 ATOM 2837 CA TRP A 355 65.804 21.757 115.472 1.00 40.04				PRO A	354	69.53	4 19.250	115.140	
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OD DDD - 355		2837	CA						
	ATOM	2838	CB	TRP A	355	65.71	.4 23.157	110.080	1.00 42.85

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             CG
                 TRP A 355
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ATOM
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             CD2 TRP A 355
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MOTA
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             CE2 TRP A 355
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MOTA
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             CE3 TRP A 355
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MOTA
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MOTA
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MOTA
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MOTA
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MOTA
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MOTA
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             CA
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ATOM
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 MOTA
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 MOTA
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                   VAL A 360
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              CB
 MOTA
                                                            1.00 36.53
                                  54.999
                                           30.251 108.133
              CG1 VAL A 360
 MOTA
         2881
                                           30.393 109.755
                                                            1.00 37.06
              CG2 VAL A 360
                                  56.888
         2882
                                                            1.00 36.74
 ATOM
                                           30.690 105.928
                                  56.886
                   VAL A 360
 ATOM
         2883
               С
                                                            1.00 34.90
                                           31.881 105.712
                                  56.661
                   VAL A 360
         2884
              Ω
 ATOM
                                                            1.00 35.48
                  ARG A 361
ARG A 361
ARG A 361
                                           29.741 105.004
                                  56.753
         2885
              N
 ATOM
                                                            1.00 38.21
                                  56.301
                                           30.049 103.652
              CA
         2886
 ATCM
                                                             1.00 39.76
                                           28.776 102.815
                                 56.152
         2887
               CB
 ATOM
                                                             1.00 39.93
                                           28.342 102.098
                   ARG A 361
                                  57.416
         2888
               CG
  ATOM
                                                            1.00 38.68
                                           26.963 101.486
                                  57.225
                   ARG A 361
               CD
         2889
  ATCM
                                           25.940 102.525
                                                            1.00 39.72
                   ARG A 361
                                  57.112
         2890
               NE
  ATCM
                                                             1.00 38.79
                                           24.643 102.286
                                  56.952
                   ARG A 361
         2891
               CZ
  ATOM
                                                            1.00 32.40
                                           24.200 101.036
                                  56.881
               NH1 ARG A 361
         2892
  MOTA
                                                             1.00 36.58
                                           23.785 103.297
                                   56.899
               NH2 ARG A 361
         2893
  MOTA
                                                             1.00 38.98
                                           30.807 103.603
                                   54.996
                   ARG A 361
         2894
               C
  ATCM
                                                             1.00 39.07
                                           30.636 104.452
                                   54.120
                   ARG A 361
               0
  ATCM
         2895
                                           31.634 102.573
                                                             1.00 39.95
                                   54.880
                   LYS A 362
         2896
               N
  ATCM
                                                             1.00 42.73
                                           32.459 102.339
                                   53.709
                   LYS A 362
         2897
               CA
  ATCM
                                           33.301 101.078
                                                             1.00 44.92
                   LYS A 362
                                   53.931
               CB
         2898
  ATCM.
                                           34.390 101.219
                                                             1.00 55.45
                   LYS A 362
                                   54.995
         2899
               CG
                                           33.842 101.671
                                                             1.00 58.28
  ATCM
                                   56.351
                   LYS A 362
               CD
         2900
  ATOM
                                                             1.00 57.34
                                            32.809 100.697
                                   56.907
                   LYS A 362
               CE
  ATOM
         2901
                                            32.283 101.151
                                                             1.00 58.75
                    LYS A 362
                                   58.224
         2902
  ATOM
                                                             1.00 40.51
                                   52.434 31.634 102.200
                    LYS A 362
LYS A 362
               C
         2903
  ATOM
                                   51.391 31.996 102.748
                                                             1.00 36.10
               0
         2904
```

ATCM

ATOM	2905	N	GLU A	363	52.506	30.527 101.469	1.00 37.79
ATOM	2906	CA	GLU A		51.313	29.705 101.295	1.00 40.96
	2907	CB	GLU A		51.587	28.530 100.347	1.00 43.62
ATOM				_	52.729	27.616 100.739	1.00 47.01
ATOM	2908	CG	GLU A				
MOTA	2909	CD	GLU A		52.995	26.547 99.683	
ATOM	2910	OE1	GLU A	363	52.080	25.737 99.409	1.00 45.63
ATOM	2911	OE2	GLU A	363	54.116	26.526 99.125	1.00 48.44
ATOM	2912	С	GLU A	363	50.788	29.209 102.636	1.00 37.74
	2913	0	GLU A		49.582	29.113 102.834	1.00 34.79
ATOM					51.691	28.910 103.564	1.00 33.64
ATOM	2914	N	VAL A				1.00 33.34
ATOM	2915	CA	VAL A		51.274	28.455 104.886	
ATOM	2916	CB	VAL A		52.484	28.048 105.749	1.00 33.99
ATOM	2917	CG1	VAL A	364	52.018	27.676 107.160	1.00 36.90
MOTA	2918	CG2	VAL A	364	53.198	26.867 105.109	1.00 29.56
ATOM	2919	С	VAL A	364	50.506	29.574 105.589	1.00 34.33
MOTA	2920	Ō	VAL A		49.454	29.336 106.188	1.00 29.80
	2921	N	LYS A		51.027	30.797 105.499	1.00 38.12
MOTA		CA	LYS A		50.381	31.952 106.119	1.00 36.77
MOTA	2922				51.255	33.204 105.969	1.00 37.98
MOTA	2923	CB	LYS A				1.00 37.99
ATOM	2924	CG		365	52.629		
ATOM	2925	CD	LYS A		53.449	34.357 106.429	1.00 35.50
ATOM	2926	CE	LYS A	365	54.837	34.190 107.032	1.00 40.35
ATOM	2927	NZ	LYS A	365	55.674	35.407 106.877	1.00 43.74
MOTA	2928	С	LYS A	365	49.025	32.191 105.468	1.00 36.62
MOTA	2929	0	LYS A		48.038	32.469 106.148	1.00 33.53
	2930	N		366	48.968	32.073 104.147	1.00 37.05
MOTA	2931	CA		366	47.708	32.278 103.449	1.00 37.72
MOTA						32.237 101.929	1.00 40.57
MOTA	2932	CB	ASP A		47.906		1.00 43.98
MOTA	2933	CG	ASP A		48.833	33.334 101.427	
MOTA	2934	OD1	ASP A	366	49.078	34.304 102.176	1.00 38.51
MOTA	2935	OD2	ASP A	366	49.297	33.235 100.269	1.00 41.96
ATOM	2936	С	ASP A	366	46.670	31.238 103.862	1.00 39.24
ATOM	2937	0	ASP A	366	45.497	31.562 104.029	1.00 39.04
ATOM	2938	N	THR A		47.096	29.990 104.031	1.00 38.99
ATOM	2939	CA	THR A		46.167	28.935 104.432	1.00 36.80
	2940	CB	THR A		46.868	27.560 104.527	1.00 33.84
MOTA			THR A		47.332	27.167 103.232	1.00 34.92
ATOM	2941	OG1				26.509 105.046	1.00 35.11
MOTA	2942	CG2	THR A		45.904		1.00 36.58
ATOM	2943	С	THR A		45.532	29.257 105.786	
ATOM	2944	0	THR A		44.307	29.202 105.931	1.00 30.18
ATOM	2945	N	LEU F	368	46.363	29.581 106.776	1.00 35.32
ATOM	2946	CA	LEU A	368	45.850	29.926 108.095	1.00 35.46
MOTA	2947	CB	LEU A	368	46.997	30.169 109.077	1.00 34.03
MOTA	2948	CG	LEU A	368	47.545	28.925 109.794	1.00 39.04
MOTA	2949		LEU A	368	46.449	28.358 110.688	1.00 37.35
ATOM	2950	CD2	LEU A		48.014	27.871 108.797	1.00 39.52
	_		LEU A		44.957	31.156 107.994	1.00 38.12
ATOM	2951	C	LEU A		43.968	31.277 108.719	1.00 31.70
ATOM	2952	0			45.307	32.063 107.086	1.00 40.45
MOTA	2953	N	GLU A				1.00 45.36
MOTA	2954	CA	GLU A		44.509	•	
ATOM	2955	CB	GLU A		45.128	34.126 105.765	1.00 47.38
MOTA	2956	CG	GLU A		46.020	35.228 106.283	1.00 53.81
MOTA	2957	CD	GLU A	369	45.227	36.306 106.996	1.00 59.97
ATCM	2958	OE1			45.846	37.252 107.526	1.00 60.65
ATOM	2959	OE2	GLU A		43.980	36.211 107.016	1.00 53.69
	2960	C	GLU A		43.100	32.865 106.466	1.00 43.23
MOTA		0	GLU /		42.130	33.283 107.095	1.00 44.62
MOTA	2961		LYS A		42.983	32.057 105.417	1.00 40.34
ATOM	2962	N	PID 1	370		31.631 104.977	1.00 43.36
ATOM	2963	CA	LYS A		41.666		1.00 44.79
ATOM	2964	CB	LYS 2	A 370	41.738	30.773 103.704	
ATOM	2965	CG	LYS 2		42.032		1.00 48.93
ATOM	2966	CD		370	43.503	31.514 102.019	1.00 51.41
ATOM	2967	CE		370	43.921	30.116 101.561	1.00 51.14
ATOM	2968	NZ	LYS	370	45.339		1.00 50.34
· ATOM	2969	C	LYS A	A 370	40.959	30.848 106.069	1.00 43.09
	2970	õ	LYS	A 370	39.745	30.977 106.248	1.00 41.34
ATOM	25.0	~					

			• •	B •			
ATOM	2971	N ALA A 371		41.715	30.037		1.00 39.56 1.00 43.57
ATOM	2972	CA ALA A 371		41.120	29.238		1.00 43.57
ATOM	2973	CB ALA A 371			28.440 3 30.132 3		1.00 46.10
MOTA	2974	C ALA A 371					1.00 46.07
MOTA	2975	O ALA A 371		39.230 40.981	31.239		1.00 46.62
MOTA	2976	N LYS A 372		40.391	32.178		1.00 48.18
MOTA	297.7	CA LYS A 372		39.052	32.698		1.00 51.67
MOTA	2978	C LYS A 372 O LYS A 372		38.294	33.318	110.432	1.00 53.21
MOTA	2979			41.334	33.364	110.413	1.00 47.22
MOTA	2980 2981	CB LYS A 372 CG LYS A 372		42.804		110.510	1.00 20.00
MOTA	2982	CD LYS A 372		43.746	34.131	110.752	1.00 20.00
MOTA MOTA	2983	CE LYS A 372		45.216		110.849	1.00 20.00
ATOM	2984	NZ LYS A 372		46.121	• • • • •	111.081	1.00 20.00 1.00 57.71
ATOM	2985	N ALA A 373		38.751		108.397 107.806	1.00 58.67
ATOM	2986	CA ALA A 373		37.492 37.758	33.632	106.480	1.00 57.19
MOTA	2987	CB ALA A 373		36.524		107.594	1.00 59.58
MOTA	2988	C ALA A 373 O ALA A 373		35.432	31.797	108.205	1.00 60.89
MOTA	2989	O ALA A 3/3 OXT ALA A 373		36.870	30.853	106.822	1.00 60.10
MOTA	2990 3014	CB ALA B 2		54.881	-4.431	56.836	1.00 55.77
MOTA	3015	C ALA B 2		53.960	-2.137	56.480	1.00 57.58
MOTA MOTA	3016	O ALA B 2		54.920	-1.720	57.131	1.00 56.75 1.00 58.22
ATOM	3017	N ALA B 2		54.263	-3.672	54.557 56.008	1.00 58.22 1.00 58.47
ATOM	3018	CA ALA B 2		53.914	-3.584 -1.376	56.151	1.00 52.79
MOTA	3019	N LYS B 3		52.919 52.855	0.022	56.543	1.00 49.68
MOTA	3020	CA LYS 3 3 CB LYS 3 3		51.643	0.700	55.896	1.00 53.14
MOTA	3021			51.751	0.785	54.377	1.00 53.37
MOTA	3022 3023	CG LYS B 3		50.685	1.681	53.786	1.00 55.40
MOTA MOTA	3023	CE LYS B 3		50.808	1.783	52.277	1.00 59.51
ATOM	3025	NZ LYS B 3		52.140	2.323	51.884	1.00 56.88 1.00 46.83
MOTA	3026	C LYS B 3		52.849	0.238 -0.607	58.059 58.830	1.00 41.63
ATOM	3027	O LYS B 3	•	52.389 53.376	1.385	58.467	1.00 41.46
MOTA	3028	N VAL B 4		53.483	1.751	59.871	1.00 40.85
ATOM	3029 3030	CA VAL B 4 CB VAL B 4		54.893	2.288	60.163	1.00 39.55
ATOM ATOM	3031	CG1 VAL B 4		55.070	2.541		1.00 41.23 1.00 38.96
MOTA	3032	CG2 VAL B 4		55.916	1.306		1.00 38.92
MOTA	3033	C VAL B 4		52.451	2.813 3.916		1.00 42.80
MOTA	3034	O VAL B 4		52.472 51.559	2.479		1.00 34.90
MOTA	3035	N LYS B 5		50.501	3.396		1.00 31.22
ATOM	3036			49.133	2.796	61.215	1.00 33.76
MOTA MOTA	3037 3038			48.841	2.623		1.00 36.60
MOTA	3039	_		48.667	3.964		1.00 41.48 1.00 43.62
ATOM	3040	CE LYS B 5		48.234	3.803		1.00 42.53
MOTA	3041	NZ LYS 3 5		49.215	3.025		1.00 32.67
ATOM	3042			50.512 51.012	3.749 2.995		1.00 25.78
MOTA	3043			49.937	4.906		1.00 27.07
ATOM	3044			49.821	5.379		1.00 31.09
MOTA	3045			50.596	6.696	64.896	1.00 30.13
ATOM	3046 3047			50.691	7.340		1.00 28.09
MOTA MOTA	3048			49.333	7.82		1.00 38.87 1.00 24.87
MOTA	3049	CD2 LEU B 6		51.248	6.33		
MOTA	3050	C, TERB 6		48.324 47.669			
ATOM	3051			47.003			1.00 28.02
ATOM	3052			46.361			1.00 23.83
ATOM	3053	, , , , , ,		45.736		1 66.670	1.00 25.11
ATOM	3054			44.309	3.97	4 67.127	
MOTA		6 CG1 ILE B 7		45.690	2.79		
Mota Mota		7 CD1 ILE B 7		47.021			
ATOM		8 C ILE B 7		46.179			
ATOM		9 0 ILE B 7	'	46.766	6.00	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

ATOM	3060	N	GLY B	8	45.	.372	7.151	67.106	1.00 29.51
	3061	CA	GLY B	8	45	151	8.170	68.117	1.00 30.28
ATOM			_						1.00 28.79
ATOM	3062	С	GLY B	8		.217	9.273	67.667	
ATOM	3063	0	GLY B	8	43.	629	9.207	66.590	1.00 19.70
	3064	N	THR B	9	44	.088	10.291	68.509	1.00 26.46
ATOM									1.00 29.37
ATOM-	3065	CY	THR B	9		.234	11.438	68.238	
ATOM	3066	CB	THR B	9	41.	.748	11.064	68.311	1.00 32.64
	3067	OG1	THR B	9	40	.959	12.253	68.218	1.00 30.35
MOTA									1.00 33.42
MOTA	3068	CG2	THR B	9		.431	10.383	69.637	
ATOM	3069	С	THR B	9	43.	.479	12.496	69.302	1.00 33.42
ATOM	3070	0	THR B	9	43.	. 884	12.173	70.416	1.00 30.46
						.228	13.754	68.961	1.00 32.05
ATOM	3071	N	LEU B.	10					
ATOM	3072	CA	LEU B	10	43.	.396	14.840	69.914-	1.00 34.75
MOTA	3073	CB	LEU B	10	43	.381	16.189	69.190	1.00 38.02
				10		.605	16.578	68.355	1.00 40.82
MOTA	3074	CG	LEU B						
MOTA	3075	CD1	LEU B	10		.961	15.472	67.394	1.00 43.62
ATOM	3076	CD2	LEU B	10	44	.314	17.869	67.605	1.00 34.99
	3077	С	LEU B	10	42	.272	14.809	70.945	1.00 34.25
ATOM				-		.415	15.348	72.042	1.00 33.13
MOTA	3078	0	LEU B	10					
MOTA	3079	N	ASP B	11	41	.158	14.169	70.595	1.00 30.61
ATOM	3080	CA	ASP B	11	40	.011	14.098	71.501	1.00 33.08
				11		.928	13.167	70.945	1.00 37.57
ATOM	3081	CB	ASP B						1.00 43.14
MOTA	3082	CG	ASP B	11		.372	13.643	69.621	
ATOM	3083	OD1	ASP B	11	38	.013	14.834	69.525	1.00 42.22
	3084		ASP B	11	3.8	.281	12.825	68.681	1.00 45.58
MOTA						.358	13.654	72.919	1.00 32.19
ATOM	3085	С	ASP B	11					
MOTA	3086	0	ASP B	11	39	.688	14.053	73.875	1.00 23.44
ATOM	3087	N	TYR B	12	41	.386	12.822	73.066	1.00 28.02
	3088	CA	TYR B	12	41	.770	12.373	74.402	1.00 32.00
MOTA						.011	11.476	74.363	1.00 28.67
MOTA	3089	CB	TYR B	12					
MOTA	3090	CG	TYR B	12	42	.821	10.108	73.737	1.00 25.33
MOTA	3091	CD1	TYR B	12	43	.338	9.823	72.475	1.00 23.74
	3092	CE1	TYR B	12	43	.235	8.546	71.924	1.00 22.85
ATOM						.183	9.077	74.436	1.00 21.93
MOTA	3093	CD2	TYR B	12					
MOTA	3094	CE2	TYR B	12		.074	7.793	73.889	1.00 21.99
ATOM	3095	CZ	TYR B	12	42	.605	7.538	72.640	1.00 22.99
	3096	ОН	TYR B	12	42	.532	6.273	72.109	1.00 18.79
ATOM						.054	13.567	75.319	1.00 32.74
ATOM	3097	C	TYR B	12					
MOTA	3098	0	TYR B	12	41	.986	13.450	76.542	1.00 23.85
MOTA	3099	N	GLY B	13	42	.374	14.710	74.720	1.00 26.96
	3100	CA	GLY B	13	42	.658	15.900	75.501	1.00 34.92
ATOM						.452	16.396	76.277	1.00 36.82
MOTA	3101	С	GLY B	13					
MOTA	3102	0	GLY B	13		.580	17.228	77.176	1.00 34.10
ATOM	3103	N	LYS B	14	40	.279	15.875	75.929	1.00 37.23
			LYS B	14		.031	16.247	76.584	1.00 41.77
ATOM	3104	CA						75.537	1.00 45.82
MOTA	3105	CB	LYS B	14		.925	16.406		
ATOM	3106	CG	LYS B	14	38	.110	17.585	74.579	1.00 51.38
ATOM	3107	CD	LYS B	14	37	.805	18.939	75.241	1.00 57.78
				14		.752	19.285	76.388	1.00 58.82
MOTA	3108	CE	LYS B						1.00 55.06
ATOM	3109	NZ	LYS B	14		.387	20.568	77.070	
ATOM	3110	С	LYS B	14	38	.591	15.226	77.627	1.00 39.50
	3111	O	LYS B	14	37	.546	15.385	78.252	1.00 35.54
ATOM						.395	14.186	77.815	1.00 40.97
ATOM	3112	N	TYR B	15					1.00 44.15
ATOM	3113	CA	TYR B	15	39	.070	13.128	78.768	
ATOM	3114	CB	TYR B	15	38	.863	11.827	77.990	1.00 44.42
		CG	TYR B	15	37	.850	11.972	76.876	1.00 42.02
ATCM	3115							75.634	1.00 41.06
ATOM	3116	CD1		15		.064	11.389		
ATOM	3117	CE1	TYR B	15		.138	11.530	74.603	1.00 42.76
ATOM	3118	CD2		15	36	.678	12.703	7 7 .065	1.00 42.99
		CE2		15	3 5	.748	12.851	76.048	1.00 43.30
atom	3119				_	.984	12.261	74.816	1.00 45.49
ATOM	3120	CZ	TYR B	15					1.00 45.69
ATOM	3121	он	TYR B	15		.066	12.403	73.801	1,00 43.69
ATOM	3122	С	TYR B	15	40	151	12.944	79.838	1.00 43.48
	3123	ŏ	TYR B	15	4.0	.519	11.819	80.167	1.00 41.20
ATOM						647	14.052	80.381	1.00 43.01
ATCM	3124	N	ARG B	16					1.00 43.70
ATOM	3125	CA	ARG B	16	43	1.686	14.012	81.410	1.00 45.70

					42.250	15.410	81.663	1.00 49.13
MOTA	3126		ARG B	16	42.250			1.00 54.22
MOTA	3127	CG	ARG B	16	42.656	16.197		1.00 55.13
ATOM	3128	CD	ARG B	16	43.858	15.624		
		NE	ARG B	16	44.303	16.549		1.00 62.87
MOTA	3129			16	44.628	17.818		1.00 64.92
MOTA	3130	CZ	ARG B			18.308	80.182	1.00 65.86
ATOM	3131	NHl	ARG B	16	44.556			1.00 67.15
ATOM	3132	NH2	ARG B	16	45.022	18.600		1.00 42.97
	3133	С	ARG B	16	41.093	13.531	82.728	
ATOM			ARG B	16	39.882	13.593	82.927	1.00 38.44
MOTA	3134	0			41.949	13.056	83.628	1.00 39.36
ATOM	3135	N	TYR B	17		12.637	84.945	1.00 37.67
MOTA	3136	CA	TYR B	17	41.494	12.037	85.584	1.00 31.69
MOTA	3137	CB	TYR B	17	42.500	11.679		1.00 28.00
ATOM	3138	CG	TYR B	17	42.413	10.250	85.087	
	3139	CD1		17	42.530	9.944	83.732	1.00 22.89
ATOM				17	42.502	8.618	83.287	1.00 21.42
MOTA	3140	CE1			42.258	9.196	85.984	1.00 24.67
ATOM	3141	CD2		17	42.229	7.873	85.556	1.00 24.48
ATOM	3142	CE2		17		7.587	84.210	1.00 27.13
ATOM	3143	CZ	TYR B	17	42.355		83.796	1.00 19.94
ATOM	3144	OH	TYR B	17	42.371	6.271		1.00 38.94
	3145	C	TYR B	17	41.377	13.927	85.765	
MOTA			TYR B	17	41.947	14.951	85.391	1.00 39.65
MOTA	3146	0		18	40.647	13.893	86.891	1.00 41.27
ATOM	3147	N	PRO B		39.958	12.728	87.462	1.00 43.62
MOTA	3148	CD	PRO B	18			87.762	1.00 45.33
ATOM	3149	CA	PRO B	18	40.448	15.058	07.702	1.00 44.09
ATOM	3150	CB	PRO B	18	39.648	14.473	88.928	1.00 49.22
	3151	CG	PRO B	18	40.096	13.015	88.933	
MOTA			PRO B	18	41.702	15.809	88.221	1.00 45.86
MOTA	3152	С			42.789	15.244	88.317	1.00 45.44
MOTA	3153	0	PRO B	18	41.506	17.095	88.507	1.00 48.42
ATOM	3154	N	LYS B	19		18.040	88.952	1.00 51.03
MOTA	3155	CA	LYS B	19	42.535		89.814	1.00 56.35
ATOM	3156	CB	LYS B	19	41.873	19.122		1.00 65.69
	3157	ĊG	LYS B	19	40.630	18.657	90.563	1.00 65.05
ATOM		CD	LYS B	19	40.894	17.441	91.423	1.00 68.96
MOTA	3158		LYS B	19	39.602	16.882	91.999	1.00 71.85
MOTA	3159	CE			39.825	15.603	92.731	1.00 72.79
MOTA	3160	NZ	LYS B	19	43.830	17.593	89.639	1.00 48.62
MOTA	3161	C	LYS B	19		18.009	89.235	1.00 49.04
MOTA	3162	0	LYS B	19	44.912			1.00 43.99
ATOM	3163	N	ASN B	20	43.745	16.775		1.00 43.86
ATOM	3164		ASN B	20	44.957			1.00 45.92
	3165				44.740			1.00 43.92
ATOM					44.418	17.848		1.00 49.44
MOTA	3166				45.194		93.138	1.00 47.72
atom	3167		1 ASN B		43.268			1.00 49.42
MOTA	3168							1.00 39.49
ATOM	3169) C	ASN E		45.460			
ATCM	3170		ASN E	20	46.496	14.521	_	
	3171	N	HIS E	21	44.729	14.274		
ATOM	3172	CA			45.091	12.923	8 . 723	1.00 33.57
ATOM					43.948	3 12.299	87.924	1.00 28.67
MOTA	3173				44.068		88.750	1.00 32.14
ATOM	3174				44.779		87.867	1.00 26.15
ATCM	3179						89.578	
ATOM	3170	5 NI	1 HIS E	3 21	43.43			
ATOM	317		E1 HIS F	3 21	43.74		09.414	
	317				44.56	8.75		
ATOM			HIS		46.34	8 12.92	88.852	1.00 29.06
atom					46.53	6 13.80	5 88.015	1.00 24.86
MOTA			HIS!		47.22			1.00 30.50
ATOM	318	1 N	PRO 1				_	
ATOM		2 CI			47.18			
ATCM			R PRO	в 22	48.44			
					49.05			
ATCM	_				43.65			
atem	318	-			48.17		0 86.72	8 1.00 28.52
ATOM	318				48.98			2 1.00 31.85
ATOM	318				47.03			7 1.00 24.47
ATOM					47.03	5 11.43	_	
ATOM					46.68			
		_	E LEU	B 23	45.93			
ATOM			G LEU	B 23	46.76	8.85	2 84.55	0 1.00 23.32
2.703	; 319							

165/263

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M	3192	CD1	LEU B	23	45.868	7.628	84.402	1.00 24.94
M	3193	CD2	LEU B	23	47.805	8.905	83.446	1.00 24.80
М	3194	Ĉ	LEU B	23	45.891	12.638	84.367	
								1.00 27.95
M	3195	၁	LEU B	23	45.166	12.528	83.373	1.00 24.42
M	3196	:1	LYS B	24	46.011	13.793	85.018	1.00 31.01
M	3197	CA	LYS B	24	45.261	14.946	84.530	1.00 29.40
M	3198	CB	LYS B	24	44.934	15.923	85.665	
								1.00 33.03
M	3199	CG	LYS B	24	45.979	16.969	85.999	1.00 33.54
M	3200	CD	LYS B	24	47.300	16.397	86.422	1.00 39.10
Mı	3201	CE	LYS B	24	48.109	17.466	87.152	1.00 45.49
M	3202	NZ	LYS B	24	48.224	18.737	86.380	1.00 45.95
)M	3203	С	LYS B	24	46.039	15.653	83.425	1.00 30.02
·Μ	3204	၁	LYS B	24	45.508	16.523	82.736	1.00 28.82
M	3205	N	ILE B	25	47.298	15.262	83.246	1.00 25.93
)M	3206	CA	ILE B	25	48.139	15.858	82.212	1.00 29.48
M	3207	CB	ILE B	25	49.641			
						15.528	82.409	1.00 33.61
)M	3208	CG2	ILE B	25	50.126	16.033	83.775	1.00 32.27
)M	3209	CG1	ILE B	25	49.851	14.014	82.263	1.00 28.17
)M	3210	CD1	ILE B	25	51.310	13.584	82.188	1.00 36.32
)M	3211	С	ILE B	25	47.784	15.318	80.834	1.00 30.08
	3212		ILE B	25	47.263		80.704	
)M		0				14.210		1.00 25.37
)M	3213	71	PRO B	26	48.064	16.101	79.783	1.00 29.19
)M	3214	CD	PRO B	26	48.650	17.448	79.770	1.00 32.47
MC	3215	CA	PRO B	26	47.782	15.673	78.413	1.00 29.52
)M	3216	CB	PRO B	26	48.103	16.921	77.593	1.00 29.84
MC	3217	CG	PRO B	26	47.930	18.046	78.599	1.00 36.40
MC	3218	C	PRO 3	26	48.789	14.561	78.137	1.00 27.64
MC	3219	0	PRO B	26	49.920	14.620	78.629	1.00 23.08
MC	3220	M	ARG B	27	48.403	13.557	77.360	1.00 23.09
MC	3221	CA	ARG B	27	49.326	12.469	77.072	1.00 23.00
MC	3222	CB	ARG B	27	48.987	11.264	77.962	1.00 26.21
MC	3223	CG	ARG B	27	49.101	11.617	79.449	1.00 17.03
MC	3224	CD	ARG B	27	48.663	10.507	80.416	1.00 26.83
MC	3225	NE	ARG B	27	49.586	9.375	80.502	1.00 22.99
MC	3226	ÇZ	ARG B	27	49.444	8.220	79.856	1.00 25.06
MC	3227	NH1	ARG B	27	48.408	8.022	79.059	1.00 17.74
MC	3228	NH2	ARG B	27	50.336	7.253	80.027	1.00 23.38
MC	3229	C	ARG B	27	49.329	12.097	75.595	1.00 22.54
MC	3230	ن ن	ARG B	27	50.214	12.526	74.852	1.00 21.86
MC	3231	N	VAL B	28	48.352	11.318	75.148	1.00 20.64
MC	3232	CA	VAL B	28	48.337	10.954	73.739	1.00 26.57
MO	3233	CB	VAL B	28	47.242	9.917	73.424	1.00 30.92
MO	3234	CG1	VAL B	28	47.195	9.645	71.925	1.00 27.04
OM	3235	CG2	VAL B	28	47.535	8.616	74.172	1.00 25.45
OM	3236	2	VAL B	28	48.150	12.189	72.866	1.00 28.02
	3237		VAL B	28	48.780	12.311	71.808	
OM		3					71.000	1.00 30.88
MO	3.38	N	SER B	29	47.298	13.112	73.304	1.00 24.30
OM	3139	CA	SER B	29	47.082	14.326	72.523	1.00 29.48
OM	3240	CB	SER B	29	45.939	15.169	73.110	1.00 31.72
OM	3241	ЭG	SER 3	29	46.218	15.614	74.424	1.00 34.55
OM	3242	c	SER B	29	48.379	15.125	72.514	
			SER S					1.00 30.81
OM	3243	Э	SER B	29	48.680	15.820	71.545	1.00 28.85
'OM	3244	N	LEU B	30	49.157	15.003	73.589	1.00 29.63
'OM	.3245	CA	LEU B	30	50.427	15.721	73.679	1.00 31.59
MO'	3246	CB	LEU B	30	51.046	15.593	75.079	1.00 29.49
MO'	3247	CG	LEU B	30	52.066	16.660	75.513	1.00 34.37
'OM	3248		LEU B	30	52.937	16.083	76.610	1.00 30.15
'OM	3249	CD2	LEU B	30	52.951	17.098	74.357	1.00 32.90
'OM	3250	c	LEU B	30	51.371	15.085	72.672	1.00 25.90
MO'	3251	5	LEU B	30	52.052	15.777	71.913	1.00 25.10
'CM	3252	N	LEU B	31	51.404	13.756	72.675	1.00 22.10
MO'	3253	CA	LEU B	31	52.268	13.013	71.764	1.00 25.52
CM	3254	CB	LEU B	31	51.966	11.514	71.842	1.00 26.41
COM	3255	CG	LEU B	31	53.066	10.524	71.441	1.00 28.93
OM	3256		LEU B	31	52.425	9.198	71.042	1.00 23.69
				31			70.300	1.00 30.41
MOT	3257		LEU B	JI	53.873	11.049	70.300	1.00 30.41
			٠.					

ATOM	3258	С	LEU 3	31	52.010	13.489	70.335	1.00 25.38
ATOM	3259		LEU B	31	52.940	13.851	69.614	1.00 21.03
ATOM	3260	N	LEU B	32	50.741	13.481	69.933	1.00 21.27
MOTA	3261	CA	LEU 3	32	50.364	13.899	68.585	1.00 27.91 1.00 26.60
MOTA	3262		LEU B	32	48.841	13.798	68.408	1.00 26.60 1.00 27.30
MOTA	3263		LEU 3	32	48.195	12.419	68.614	1.00 31.60
MOTA	3264	CD1 -		32	46.699	12.504	68.321 67.708	1.00 31.00
MOTA	3265		LEU 3	32	48.837	11.391	68.242	1.00 26.07
MOTA	3266		LEU 3		50.835 51.458	15.317 15.533	67.205	1.00 22.45
MOTA	3267		LEU 3	32	50.545	16.282	69.111	1.00 28.19
MOTA	3268	N	ARG B	33 33	50.962	17.660	68.865	1.00 31.77
ATOM	3269 3270	CA CB	ARG B	33	50.395	18.601	69.930	1.00 34.22
MOTA MOTA	3270	CG	ARG B	33	48.887	18.740	69.904	1.00 40.33
ATOM	3272		ARG B	33	48.420	19.713	70.970	1.00 47.67
ATOM	3273	NE	ARG B	33	46.977	19.931	70.924	1.00 56.24
MOTA	3274	CZ	ARG 3	33	46.330	20.505	69.912	1.00 60.10
ATOM	3275	NH1	ARG 3	33	46.997	20.929	68.845	1.00 63.11 1.00 63.81
ATOM	3276	NH2	ARG B	33	45.011	20.652	69.965	1.00 83.81
MOTA	3277	С	ARG 3	33	52.476	17.791 18.580	68.852 68.097	1.00 30.12
MOTA	3278	0	ARG B	33	53.028	17.012	69.694	1.00 30.70
MOTA	3279	N	PHE 3	34	53.147 54.600	17.012	69.774	1.00 29.42
MOTA	3280	CA	PHE B	34 . 34	55.096		70.920	1.00 30.46
MOTA	3281	CB CG	PHE B	34	56.556	16.358	71.248	1.00 28.56
ATOM	3282 3283		PHE B	34	57.001	17.515	71.885	1.00 26.92
ATOM ATOM	3284		PHE 3	34	57.481	15.373	70.932	1.00 28.88
ATOM	3285		PHE 3	34	58.346	17.684	72.206	1.00 28.15
ATOM	3286	CE2	PHE B	34	58.831	15.530	71.246	1.00 31.47
ATOM	3287	CZ	PHE B	34	59.265	16.689	71.887	1.00 28.15 1.00 33.78
MOTA	3288	Ċ	PHE B	34	55.202	16.583	68.460	1.00 33.78 1.00 33.71
MOTA	3289	0	PHE 3	34	56.049	17.259	67.873 67.999	1.00 28.65
MOTA	3290	N	LYS B		54.770 55.294	15.413 14.880	66.753	1.00 34.33
MOTA	3291	CA	LYS 3		54.684	13.509	66.454	1.00 32.97
MOTA	3292	CB CG	LYS B		55.141	12.423	67.414	1.00 34.93
ATOM	3293 3294	CD	LYS B	_	54.580	11.066	67.047	1.00 41.43
ATOM ATOM	3295	CE	LYS B		53.070	11.004	67.205	1.00 44.04
ATOM	3296	NZ	LYS 3		52.335	11.984	66.345	1.00 60.09
ATOM	3297	С	LYS 3		55.015	15.842	65.608	1.00 35.78 1.00 33.39
ATOM	3298	0	LYS 3		55.869	16.061	64.752 65.602	1.00 33.33
MOTA	3299	N	ASP B		53.823	16.426	64.552	1.00 36.31
ATOM	3300	CA	ASP B		53.468 52.015	17.365 17.800	64.698	1.00 42.56
MOTA	3301	CB	ASP 3		51.617	18.822	63.661	1.00 43.03
ATOM	3302	CG	ASP B		51.812	18.544	62.461	
MOTA	3303 3304		ASP E		51.111	19.897	64.043	1.00 .4.34
MOTA	3305	C	ASP E		54.371	18.590	64.578	1.00 6.14
ATOM ATOM	3306	ŏ	ASP E		54.764	19.099	63.534	1.00 32.40
ATOM	3307	· N	ALA E		54.694	19.061	65.777	1.00 34.80
ATOM	3308	CA	ALA E	3 37	55.554	20.226	65.924	1.00 36.82
ATOM	3309	CB	ALA E		55.599	20.659	67.383 65.429	1.00 37.66
ATOM	3310	C	ALA E		56.959	19.901		1.00 30.56
MOTA	3311	0	ALA E		57.675	20.776 18.635	65.541	
ATOM	3312	Ŋ	MET :		57.346 58.670	18.192	65.107	
MOTA	3313	CA	MET E		59.158			
ATOM	3314	CB	MET :		59.341			1.00 37.68
atom	3315	CG SD	MET		60.841			1.00 38.07
MOTA	3316 3317	CE	MET		62.093		67.300	1.00 30.98
ATOM	3318	CE	MET		58.639	17.690		
MOTA ATOM	3319	_	MET		59.659	17.262		
ATOM	3320		ASN	в 39	57.470			
ATOM	3321		ASN	в 39	57.321			
ATOM	3322				58.156			
ATOM	3323		ASN	в 39	57.670	19.543	, 50.331	

ATOM 3324 ODI ASN B 39										
ATOM 3326 C ASN B 39 57.799 15.804 60.933 1.00 46.52 ATOM 3327 O ASN B 39 57.790 15.804 61.569 1.00 35.75 ATOM 3328 N LEU B 40 57.332 14.997 62.535 1.00 36.275 ATOM 3332 CA LEU B 40 57.332 14.997 62.535 1.00 36.21 ATOM 3331 CG LEU B 40 58.347 13.248 63.898 1.00 35.70 ATOM 3331 CG LEU B 40 58.347 13.248 63.898 1.00 35.10 ATOM 3333 CD2_LEU B 40 60.448 13.648 65.573 1.00 36.21 ATOM 3333 CD2_LEU B 40 60.448 13.648 65.573 1.00 36.27 ATOM 3333 CD2_LEU B 40 60.646 13.880 63.145 1.00 35.75 ATOM 3333 CD2_LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3333 CD2_LEU B 40 56.637 11.438 62.773 1.00 36.79 ATOM 3333 CD2_LEU B 40 56.637 11.438 62.773 1.00 36.79 ATOM 3333 CD2_LEU B 41 55.456 13.131 61.663 1.00 35.78 ATOM 3336 N LLE B 41 55.345 11.991 62.536 1.00 35.21 ATOM 3337 CA LLE B 41 55.345 11.991 62.536 1.00 35.21 ATOM 3339 CG2 LLE B 41 52.793 1.00 10.0 35.21 ATOM 3340 CG1 LLE B 41 52.793 1.00 10.550 63.285 1.00 35.21 ATOM 3341 CD1 LLE B 41 52.793 1.00 10.550 63.285 1.00 35.21 ATOM 3343 C LEU B 40 51.345 11.991 62.536 1.00 35.21 ATOM 3341 CD1 LLE B 41 52.793 10.550 63.285 1.00 36.457 ATOM 3343 C LE B 41 53.452 11.991 60.299 1.00 37.52 ATOM 3343 C LE B 41 53.452 11.991 60.299 1.00 37.52 ATOM 3344 N ASP B 42 52.994 12.615 58.273 1.00 40.24 ATOM 3345 C A SP B 42 52.994 12.615 58.273 1.00 40.24 ATOM 3346 CB ASP B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3351 C A B B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3353 C G LU B 43 47.992 12.584 58.584 1.00 45.15 ATOM 3351 C A B B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3353 C G LU B 43 47.992 12.584 58.590 1.00 47.06 ATOM 3353 C G LU B 43 47.992 12.584 58.312 1.00 45.15 ATOM 3351 C A B B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3353 C G LU B 43 47.992 12.584 58.312 1.00 48.60 ATOM 3350 C A LE B 44 50.997 8.998 59.595 1.00 47.06 ATOM 3351 C A B B 42 50.00 7.799 58.813 1.00 48.60 ATOM 3360 C A LU B 44 48.699 7.903 54.470 1.00 45.15 ATOM 3360 C A LU B 44 48.699 7.903 54.470 1.00 45.93 ATOM 3370 N GLU B 45 50.00 7.799 58.811 1.00 40.24 ATOM 3370 N GLU B 45 50.00 7.799 58.811 1.00 34.76 ATOM	TOM	3324	oni	ASN B	39	5	6 524	19 801	60.212	1 00 48.78
ATOM 3326 C ASN B 39						_				
ATOM 3328 N LEU B 40 57, 332 14, 997 62, 535 1, 00 35, 75										
ATOM 3328 N LEU B 40 57.700 13.590 62.535 1.00 34.64 ATOM 3330 CB LEU B 40 57.700 13.590 62.556 1.00 35.97 ATOM 3331 CB LEU B 40 58.347 13.248 63.888 1.00 35.97 ATOM 3332 CDI LEU B 40 60.646 13.880 63.145 1.00 36.27 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 37.58 ATOM 3335 O LEU B 40 56.637 11.438 62.573 1.00 36.79 ATOM 3336 N LE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3338 CB LEU B 40 56.637 11.438 62.573 1.00 38.79 ATOM 3338 CB LEU B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3339 CG2 LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3340 CG1 LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3340 CG1 LLE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CD1 LLE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3342 C LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3343 C LLE B 41 53.445 12.997 60.299 1.00 36.46 ATOM 3343 C LLE B 41 53.452 12.997 60.299 1.00 36.46 ATOM 3343 C LLE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 10.990 62.141 1.00 32.68 ATOM 3355 C LB ASP B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3350 C ASP B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3351 C A LE B 41 53.492 12.997 60.299 1.00 45.66 ATOM 3355 C G LU B 43 47.992 12.584 58.564 1.00 45.15 ATOM 3356 C D GLU B 43 47.992 12.584 58.512 1.00 66.60 ATOM 3357 OEL GLU B 43 47.992 11.736 65.162 1.00 45.16 ATOM 3358 C C LU B 43 47.992 11.736 65.162 1.00 45.16 ATOM 3356 C D GLU B 43 47.992 11.505 57.840 1.00 45.93 ATOM 3357 OEL GLU B 43 47.992 11.505 57.840 1.00 47.00 ATOM 3373 C G GLU B 43 47.992 11.505 57.840 1.00 47.00 66.95 ATOM 3368 C D LYS B 44 48.899 9.099 55.510 1.00 66.95 ATOM 3368 C C LYS B 44 49.609 7.993 55.176 1.00 49.06 ATOM 3373 C G GLU B 45	ATOM	3326	С	ASN B	39	51	7.759	15.804	61.569	1.00 39.12
ATOM 3328 N LEU B 40 57.700 13.590 62.535 1.00 34.64 ATOM 3330 CB LEU B 40 57.700 13.590 62.556 1.00 35.97 ATOM 3331 CB LEU B 40 58.347 13.248 63.888 1.00 35.97 ATOM 3332 CDI LEU B 40 60.646 13.880 63.145 1.00 36.27 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3333 CDI LEU B 40 60.646 13.880 63.145 1.00 37.58 ATOM 3335 O LEU B 40 56.637 11.438 62.573 1.00 36.79 ATOM 3336 N LE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3338 CB LEU B 40 56.637 11.438 62.573 1.00 38.79 ATOM 3338 CB LEU B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3339 CG2 LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3340 CG1 LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3340 CG1 LLE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CD1 LLE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3342 C LLE B 41 53.445 11.991 63.047 1.00 31.89 ATOM 3343 C LLE B 41 53.445 12.997 60.299 1.00 36.46 ATOM 3343 C LLE B 41 53.452 12.997 60.299 1.00 36.46 ATOM 3343 C LLE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 60.299 1.00 37.52 ATOM 3343 C LA LE B 41 53.452 12.997 10.990 62.141 1.00 32.68 ATOM 3355 C LB ASP B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3350 C ASP B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3351 C A LE B 41 53.492 12.997 60.299 1.00 45.66 ATOM 3355 C G LU B 43 47.992 12.584 58.564 1.00 45.15 ATOM 3356 C D GLU B 43 47.992 12.584 58.512 1.00 66.60 ATOM 3357 OEL GLU B 43 47.992 11.736 65.162 1.00 45.16 ATOM 3358 C C LU B 43 47.992 11.736 65.162 1.00 45.16 ATOM 3356 C D GLU B 43 47.992 11.505 57.840 1.00 45.93 ATOM 3357 OEL GLU B 43 47.992 11.505 57.840 1.00 47.00 ATOM 3373 C G GLU B 43 47.992 11.505 57.840 1.00 47.00 66.95 ATOM 3368 C D LYS B 44 48.899 9.099 55.510 1.00 66.95 ATOM 3368 C C LYS B 44 49.609 7.993 55.176 1.00 49.06 ATOM 3373 C G GLU B 45		3327	0	1SN B	3.0	5	8 465	15 416	60 639	1.00.35.75
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ATOM 3330 CB LEU B 40 59.595 14.073 64.227 1.00 35.97	ATOM	3329	CA	LEU B	40	51	7.700	13.590	62.556	1.00 35.10
ATOM 3331 CG LEU B 40 59,595 14,073 64,227 1,000 36,21 ATOM 3333 CD2-LEU B 40 60,646 13,880 63,145 1,000 36,79 ATOM 3335 C LEU B 40 56,549 12,626 62,264 1,000 37,58 ATOM 3336 N ILE B 41 55,476 13,131 61,663 1,000 36,79 ATOM 3338 CB ILE B 41 55,476 13,131 61,663 1,000 36,79 ATOM 3339 CG2 ILE B 41 52,367 10,980 62,141 1,000 35,21 ATOM 3340 CGI ILE B 41 52,367 10,980 62,141 1,00 32,68 ATOM 3342 C ILE B 41 51,479 10,550 62,285 1,00 37,52 ATOM 3345 C ASP B 42 52,933 12,114 59,345 1,00 40,24 <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>8 347</td> <td></td> <td></td> <td>1 00 35 97</td>						5	8 347			1 00 35 97
STOM 3332 CD1 LEU B 40 60.148 13.648 65.573 1.00 36.57										
ATOM 3333 CD2_LEU B 40 66.646 13.880 63.145 1.00 36.79	ATOM	3331	CG	LEU B	40	5	9.595	14.073	64.227	
ATOM 3333 CD2_LEU B 40 66.646 13.880 63.145 1.00 36.79	MOTA	3332	CD1	LEU B	40	6	0.148	13.648	65.573	1.00 36.57
ATOM 3334 C LEU B 40 56.549 12.626 62.264 1.00 37.58 ATOM 3335 O LEU B 40 56.637 11.438 62.573 1.00 39.575 ATOM 3336 N ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3338 CB ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3338 CB ILE B 41 55.476 13.131 61.663 1.00 35.42 ATOM 3339 CG2 ILE B 41 55.476 13.131 62.506 63.047 1.00 31.89 ATOM 3340 CG1 ILE B 41 55.476 10.980 62.141 1.00 32.68 ATOM 3340 CG1 ILE B 41 55.476 10.980 62.141 1.00 32.68 ATOM 3341 CD1 ILE B 41 55.470 10.550 63.285 1.00 36.46 ATOM 3342 C LEU B 41 55.470 10.550 63.285 1.00 36.46 ATOM 3342 C LEU B 41 55.470 10.550 63.285 1.00 36.46 ATOM 3342 C LEU B 41 55.492 12.937 60.229 1.00 37.54 ATOM 3343 O ILE B 41 55.492 12.937 60.229 1.00 37.54 ATOM 3345 CA ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3346 CB ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3346 CB ASP B 42 52.559 12.119 56.901 1.00 45.30 ATOM 3347 CG ASP B 42 52.559 12.119 56.901 1.00 45.30 ATOM 3348 OD1 ASP B 42 55.959 12.119 56.901 1.00 45.30 ATOM 3349 OD2 ASP B 42 55.972 12.584 56.564 1.00 47.93 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 48.13 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C ASP B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C G GUU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 C G GUU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 C G GUU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 C G GUU B 43 47.491 13.637 57.571 1.00 55.54 ATOM 3356 C D GUU B 43 47.992 11.505 57.840 1.00 45.92 ATOM 3356 C D GUU B 43 47.992 11.505 57.840 1.00 45.92 ATOM 3357 OEI GUU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3356 C D GUU B 43 47.992 11.505 57.840 1.00 45.92 ATOM 3356 C D GUU B 43 47.992 11.505 57.840 1.00 45.92 ATOM 3357 OEI GUU B 43 47.992 11.505 57.840 1.00 45.92 ATOM 3360 C C LU B 43 47.992 10.547 58.990 1.00 49.96 ATOM 3363 C D LU B 43 49.797 12.905 57.836 1.00 40.95 57.840 1.00 45.92 ATOM 3360 C C LU B 45 50.690 7.993 59.995 99.176 1.00 46.92 ATOM 3360 C C LU B 45 50.690 7.993 59.176 1.00 46.92 ATOM 3360 C										
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ATOM 3336 N ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3337 CA ILE B 41 55.476 13.131 61.663 1.00 35.42 ATOM 3338 CB ILE B 41 52.733 13.271 63.047 1.00 315.42 ATOM 3339 CG2 ILE B 41 52.733 13.271 63.047 1.00 31.89 ATOM 3340 CG1 ILE B 41 52.735 10.980 62.141 1.00 32.68 ATOM 3341 CD1 ILE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C ILE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3343 O ILE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.943 12.114 593.455 1.00 97.52 ATOM 3345 CA ASP B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3347 CG ASP B 42 52.094 12.615 58.273 1.00 45.93 ATOM 3348 ODI ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3349 ODZ ASP B 42 54.797 11.736 56.162 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3355 CC GGLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 CG GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 CG GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 55.54 ATOM 3356 CD GLU B 43 47.941 13.507 57.840 100 55.54 ATOM 3357 OEI GLU B 43 47.941 13.507 57.840 100 55.54 ATOM 3358 OEZ GLU B 43 47.941 13.507 57.840 100 59.554 ATOM 3356 CD GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3357 OEI GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3358 OEZ GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 C GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 64.03 ATOM 3363 CB LYS B 44 48.690 10.744 56.817 1.00 64.03 ATOM 3360 C GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.899 8.249 57.161 1.00 48.28 ATOM 3363 CG LUS B 45 50.066 77.99 58.817 1.00 61.03 ATOM 3360 C GLU B 45 50.066 77.99 58.811 1.00 33.73 ATOM 3360 C GLU B 45 50.066 77.99 58.811 1.00 33.73 ATOM 3360 C GLU B 45 50.066 77.99 58.811 1.00 33.73 ATOM 3370 N GLU B 45 50.066 77.99 58.811 1.00 33.73 ATOM 3371 C G GLU B 45 50.066 77.99 58.811 1.00 33.74 ATOM 3373 C G GLU B 45 50.066 77.99 58.811 1.00 33.73 ATOM	ATOM	3335	0	LEU B	40	5	6 .637	11.438	62.573	1.00 39.15
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ATOM 3340 CG1 ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3342 C ILE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3343 O ILE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3346 CA ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3346 CA ASP B 42 52.094 12.615 58.273 1.00 45.93 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 OD1 ASP B 42 54.244 13.799 56.686 1.00 46.93 ATOM 3349 OD2 ASP B 42 54.244 13.799 56.686 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3355 CG GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 45.165 13.505 57.840 1.00 59.54 ATOM 3355 CG GLU B 43 45.165 13.505 57.840 1.00 59.54 ATOM 3355 CG GLU B 43 45.165 13.505 57.840 1.00 59.54 ATOM 3356 CD GLU B 43 45.165 15.298 56.301 1.00 64.03 ATOM 3356 CD GLU B 43 45.165 15.298 56.301 1.00 64.03 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3356 CD GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 C GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3356 CD GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.649 10.44 56.817 1.00 64.21 ATOM 3366 CE LYS B 44 48.484 9.409 56.251 1.00 64.21 ATOM 3366 CE LYS B 44 48.484 9.409 56.251 1.00 64.21 ATOM 3366 CE LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3367 NC LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3367 NC LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3366 CE LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3367 NC LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3367 NC LYS B 44 48.848 9.409 56.251 1.00 64.21 ATOM 3360 CD LYS B 44 50.500 7.99 58.821 1.00 33.47 ATOM 3370 N GLU B 45 55.000 7.99 58.821 1.00 33.47 ATOM 3370 N GLU B 45 55.000 7.99 58.821 1.00 33.47 ATOM 3370 N GLU B 45 55.000 7.99 58.821 1.00 33.47 ATOM 3370 N GLU B 4	MOTA	3339	CG2	ILE B	41	5:	2.793	13.271	63.047	1.00 31.89
ATOM 3341 CD1 LLE B 41 53.470 10.550 63.285 1.00 36.46 ATOM 3343 O LLE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 49.24 ATOM 3346 CB ASP B 42 52.994 12.615 58.273 1.00 45.30 ATOM 3347 CG ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 OD1 ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 OD1 ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 OD1 ASP B 42 54.797 11.736 56.162 1.00 45.15 ATOM 3350 C ASP B 42 54.797 11.736 56.162 1.00 45.15 ATOM 3350 C ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 50.50 ATOM 3355 CB GLU B 43 47.441 13.637 57.571 1.00 50.50 ATOM 3355 CB GLU B 43 47.441 13.637 57.571 1.00 59.52 ATOM 3355 CB GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3355 CB GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3355 CB GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3355 CB GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3356 CB GLU B 43 45.765 15.298 56.301 1.00 66.95 ATOM 3356 CB GLU B 43 47.972 11.205 57.836 1.00 49.67 ATOM 3356 CB GLU B 43 47.972 11.205 57.836 1.00 49.67 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 48.28 ATOM 3362 CA LYS B 44 49.207 9.311 54.894 1.00 49.67 ATOM 3366 CB LYS B 44 49.207 9.311 54.894 1.00 49.66 ATOM 3366 CB LYS B 44 49.207 9.311 54.894 1.00 49.67 ATOM 3367 CB GLU B 45 50.990 7.903 54.470 1.00 52.34 ATOM 3367 CB GLU B 45 50.990 7.903 54.470 1.00 52.34 ATOM 3367 CB GLU B 45 50.990 7.993 54.894 1.00 49.96 ATOM 3367 CB GLU B 45 50.990 7.993 54.894 1.00 49.96 ATOM 3367 CB GLU B 45 50.990 7.993 54.894 1.00 49.96 ATOM 3367 CB GLU B 45 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 CB GLU B 45 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB LYS B 44 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB LYS B 44 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB LYS B 44 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB LYS B 44 50.990 7.993 54.470 1.00 59.53 ATOM 3360 CB										
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ATOM 3345 CA ASP B 42 52.569 12.615 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 47.09 ATOM 3348 OD1 ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3349 OD2 ASP B 42 54.797 11.736 56.162 1.00 45.15 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3352 N GLU B 43 48.9707 12.944 58.121 1.00 50.50 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3357 OEI GLU B 43 45.765 14.518 57.065 1.00 64.03 ATOM 3358 OEZ GLU B 43 45.765 12.298 56.301 1.00 66.95 ATOM 3360 O GLU B 43 47.092 10.547 58.390 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 46.21 ATOM 3363 CD LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CD LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CD LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 NZ LYS B 44 48.498 7.992 10.547 58.390 1.00 47.81 ATOM 3360 O GLU B 43 48.496 7.992 55.512 1.00 61.03 ATOM 3367 NZ LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 NZ LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 NZ LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 NZ LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3360 CD LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 46.21 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.34 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.34 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 43.34 ATOM 3368 CD LYS B 44 48.899 8.249 57.161 1.00 43.34 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 43.34 ATOM 3370 N GLU B 45 50.684 7.812 59.988 55.510 1.00 62.80 ATOM 3371 CD GLU B 45 50.684 7.812 59.988 55.100 1.00 42.18 ATOM 3373 CD GLU B 45 50.684 7.812 59.988 55.100 1.00 42.18 ATOM 3376 OEZ GLU B 45 50.684 7.812 59.989 50.170 1.00 31.36 ATOM 3378 O GLU B 45 50.998 55.510 1.00 33.373 ATOM 3376 OEZ GLU B 45 50.998 50.905 50.900 1.00 31.38 ATOM 3378 O GLU B 45 50.998 50.905 50.90										
ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3347 CG ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3348 ODI ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3348 ODI ASP B 42 54.244 13.799 56.686 1.00 46.60 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3356 CD GLU B 43 45.155 14.518 57.065 1.00 64.03 ATOM 3357 OEI GLU B 43 45.765 15.298 56.301 1.00 68.54 ATOM 3359 C GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3362 CA LYS B 44 49.639 7.903 54.470 1.00 59.52 ATOM 3366 CD LYS B 44 49.639 7.903 54.470 1.00 62.80 ATOM 3366 CC LYS B 44 49.639 7.903 54.470 1.00 62.80 ATOM 3366 CC LYS B 44 49.639 7.903 54.470 1.00 62.80 ATOM 3366 CC LYS B 44 49.639 7.903 54.470 1.00 62.80 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 48.28 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 NG GLU B 45 50.970 7.532 55.127 1.00 61.03 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 NG GLU B 45 50.968 7.887 58.351 1.00 37.58 ATOM 3370 NG GLU B 45 50.696 7.887 58.351 1.00 37.58 ATOM 3371 CA GLU B 45 50.696 7.887 58.351 1.00 37.58 ATOM 3373 CG GLU B 45 50.696 7.887 58.351 1.00 37.58 ATOM 3376 OEI GLU B 45 50.997 9.699 59.176 1.00 30.804 ATOM 3376 OEI GLU B 45 50.998 8.504 58.813 1.00 37.58 ATOM 3376 OEI GLU B 45 50.998 8.504 58.813 1.00 37.58 ATOM 3376 OEI GLU B 45 50.998 8.504 58.813 1.00 37.58 ATOM 3376 OEI GLU B 45 50.998 8.504 58.813 1.00 37.58 ATOM 3376 OEI GLU B 45 50.999 9.999 9.9176 1.00 30.804 ATOM 3376 OEI GLU B 45 50.999 9.999 9.9176 1.00 30.065 ATOM 3376 OEI GLU B 45 50.999 9.999 9.9176 1.00 30.065 ATOM 3376 OEI GLU B 46 47.608 8.438 60.366 1.00 30.986 ATOM 3										
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ATOM 3348 OD1 ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3349 OD2 ASP B 42 54.797 11.736 56.162 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3355 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3357 OE1 GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3358 OE2 GLU B 43 45.765 15.298 56.301 1.00 66.95 ATOM 3350 CO GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3362 CA LYS B 44 48.690 10.744 56.817 1.00 49.96 ATOM 3365 CD LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 46.21 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 N GLL B 45 50.970 7.532 55.127 1.00 61.03 ATOM 3370 N GLL B 45 50.966 7.887 7.885 7.99 1.00 47.58 ATOM 3371 CA GLU B 45 50.966 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.966 7.486 59.014 1.00 38.41 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 33.75 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3375 CE GLU B 45 50.268 7.486 60.386 1.00 33.73 ATOM 3378 N LEU B 46 47.608 8.438 61.545 1.00 30.865 ATOM 3380 CA LEU B 46 47.501 9.889 62.019 1.00 34.76 ATOM 3380 CA LEU B 46 47.501 9.899 62.019 1.00 34.76 ATOM 3380 CA LEU B	ATOM	3346	CB	ASP B	42	5.	2.569	12.119	56.901	1.00 45.93
ATOM 3348 OD1 ASP B 42 54.244 13.799 56.686 1.00 46.60 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.06 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 50.50 ATOM 3353 CA GLU B 43 49.707 12.944 58.121 1.00 50.50 ATOM 3355 CA GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3357 OE1 GLU B 43 45.961 13.505 57.840 1.00 68.54 ATOM 3357 OE1 GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3358 OE2 GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3362 CA LYS B 44 48.484 9.409 56.251 1.00 48.28 ATOM 3365 CD LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 48.899 8.249 57.161 1.00 65.34 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 65.34 ATOM 3370 N GLL B 45 50.970 7.532 55.127 1.00 61.03 ATOM 3370 N GLL B 45 50.960 77.99 58.821 1.00 33.73 ATOM 3371 CA GLU B 45 50.268 7.887 58.351 1.00 37.58 ATOM 3372 CB GLU B 45 50.268 7.887 58.351 1.00 37.58 ATOM 3373 CG GLU B 45 50.268 7.887 58.351 1.00 37.58 ATOM 3373 CG GLU B 45 50.268 7.887 58.351 1.00 33.73 ATOM 3373 CG GLU B 45 50.268 7.887 58.351 1.00 33.73 ATOM 3370 N GLU B 45 49.489 8.386 60.386 1.00 34.98 ATOM 3377 C GLU B 45 50.268 7.887 58.351 1.00 37.58 ATOM 3370 N GLU B 45 49.489 8.386 60.386 1.00 33.73 ATOM 3370 N GLU B 45 50.969 79.79 95.821 1.00 33.37 ATOM 3370 N GLU B 45 50.969 79.99 99.176 1.00 32.74 ATOM 3380 CA LEU B 46 47.608 8.438 61.55 1.00 33.37 ATOM 3370 N GLU B 45 50.969 79.79 95.821 1.00 33.37 ATOM 3380 CA LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3380 CD LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3386 CA LEU B 46 47.501										
ATOM 3349 OD2 ASP B 42										
ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 59.52 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3357 OEI GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3358 OE2 GLU B 43 45.765 15.298 56.301 1.00 66.95 ATOM 3358 OE2 GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3362 CA LYS B 44 49.207 9.311 54.894 1.00 49.86 ATOM 3365 CD LYS B 44 49.207 9.311 54.894 1.00 49.86 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.86 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 45.92 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 62.80 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 33.43 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3372 CB GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3379 N LEU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3379 N LEU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3379 N LEU B 45 50.268 7.486 59.014 1.00 33.37 ATOM 3379 N LEU B 46 47.608 8.438 61.545 1.00 34.98 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 33.37 ATOM 3379 N LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 33.37 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 33.39 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 33.39 ATOM 3388 CA LEU B 46 47.609 9.379 64.425 1.00 31.36 ATOM 3388 CA LEU B 46 47.609 9.3	ATOM	3348								
ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.54 ATOM 3355 CD GLU B 43 45.961 13.505 57.840 1.00 59.54 ATOM 3357 OE1 GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3357 OE1 GLU B 43 45.765 15.298 56.301 1.00 66.54 ATOM 3358 OE2 GLU B 43 45.765 15.298 56.301 1.00 66.54 ATOM 3358 OE2 GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 48.28 ATOM 3363 CB LYS B 44 48.484 9.409 56.251 1.00 46.21 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 50.970 7.532 55.170 1.00 65.34 ATOM 3366 CE LYS B 44 48.488 9 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3367 NZ LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3367 NZ LYS B 44 48.488 9 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3375 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.017 1.00 61.03 ATOM 3378 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 33.373 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 33.373 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 30.86 ATOM 3378 O GLU B 45 50.2	MOTA	3349	OD2	ASP B	42	5.	4.797	11.736	56.162	1.00 45.16
ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.54 ATOM 3355 CD GLU B 43 45.961 13.505 57.840 1.00 59.54 ATOM 3357 OE1 GLU B 43 45.961 13.505 57.840 1.00 64.03 ATOM 3357 OE1 GLU B 43 45.765 15.298 56.301 1.00 66.54 ATOM 3358 OE2 GLU B 43 45.765 15.298 56.301 1.00 66.54 ATOM 3358 OE2 GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 48.28 ATOM 3363 CB LYS B 44 48.484 9.409 56.251 1.00 46.21 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 50.970 7.532 55.170 1.00 65.34 ATOM 3366 CE LYS B 44 48.488 9 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3367 NZ LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3367 NZ LYS B 44 48.488 9 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.488 7.127 57.009 1.00 41.30 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3375 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.017 1.00 61.03 ATOM 3378 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 33.373 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 33.373 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 30.86 ATOM 3378 O GLU B 45 50.2	MOTA	3350	C	ASP B	42	5	0.677	12.134	58.524	1.00 45.15
ATOM 3352 N GLU B 43										
ATOM 3353 CA GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3354 CB GLU B 43 47.441 13.637 57.571 1.00 53.55 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 59.52 ATOM 3357 OEL GLU B 43 45.155 14.518 57.065 1.00 64.03 ATOM 3357 OEL GLU B 43 45.914 14.535 57.215 1.00 68.54 ATOM 3358 OEZ GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3361 N LYS B 44 48.484 9.409 56.251 1.00 46.21 ATOM 3362 CA LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 62.80 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3366 CE LYS B 44 48.484 9.409 56.251 1.00 45.92 ATOM 3366 CE LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3366 CE LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3366 CE LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3375 OEI GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3375 OEI GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3376 OEZ GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3377 CD GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 OEI GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3378 OEI GLU B 45 50.004 7.887 58.899 60.368 1.00 33.73 ATOM 3380 CD LEU B 46 47.608 8.438 61.545 1.00 33.74 ATOM 3381 CD LEU B 46 47.608 8.438 61.545 1.00 33.74 ATOM 3388 CD LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3388 C										
ATOM 3354 CB GLU B 43	ATOM									
ATOM 3355 CG GLU B 43	MOTA	3353	CA	GLU B	43			12.618	58.312	1.00 50.50
ATOM 3355 CG GLU B 43	ATOM	3354	CB	GLU B	43	4	7.441	13.637	57.571	1.00 53.54
ATOM 3356 CD GLU B 43										
ATOM 3357 OE1 GLU B 43										
ATOM 3358 OE2 GLU B 43	ATOM	3356	CD	GLU B						
ATOM 3358 OE2 GLU B 43	ATOM	3357	OE1	GLU B	43	. 4	3.914	14.535	57.215	1.00 68.54
ATOM 3359 C GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.092 10.547 58.390 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.8817 1.00 46.21 ATOM 3362 CA LYS B 44 48.484 9.409 56.251 1.00 48.28 ATOM 3363 CB LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3364 CG LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3365 CD LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 62.80 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3376 OE2 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3377 C GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3377 C GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3377 C GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3377 C GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3378 OE1 GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3378 N LEU B 46 47.608 8.438 61.545 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3381 CB LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3381 CB LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 CD LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 CD LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CA LEU B 46 46.530 8.218 60.363 1.00 31.18 ATOM 3388 CA LEU B 46 46.530 8.218 60.363 1.00 31.78 ATOM 3388 CA LEU B 46 47.409 6.338 62.139 1.00 29.36 ATOM 3388 CA LEU B 46 46.621 27.861 61.318 1.00 31.78 ATOM 3388 CA LEU B 46 47.409 6.338 62.139 1.00 29.36 ATOM 3388 CA LEU B 46 46.639 11.656 63.548 1.00 31.78 ATOM 3388 CA LEU B 46 47.40		3358	OE2	GLU B	43	4	5.765	15,298	56.301	1.00 66.95
ATOM 3360 O GLU B 43										
ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 46.21 ATOM 3362 CA LYS B 44 48.484 9.409 56.251 1.00 48.28 ATOM 3363 CB LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3365 CD LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3368 C LYS B 44 50.511 5.098 55.510 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.294 57.161 1.00 45.92 ATOM 3369 0 LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLL B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3376 OE2 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 CG GLU B 45 49.461 6.462 61.032 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 32.24 ATOM 3383 CD1 LEU B 46 47.608 8.438 61.545 1.00 32.24 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3386 C LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3386 C LEU B 46 46.530 11.656 63.548 1.00 33.94 ATOM 3388 CA LEU B 46 46.530 11.656 63.548 1.00 33.94 ATOM 3388 CA ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
ATOM 3362 CA LYS B 44	ATOM	3360	0	GLU B	43					
ATOM 3363 CB LYS B 44	ATOM	3361	· N	LYS B	44	4	8.690	10.744	56.817	1.00 46.21
ATOM 3363 CB LYS B 44		3362	CA	LYS B	44	4	8.484	9.409	56.251	1.00 48.28
ATOM 3364 CG LYS B 44										
ATOM 3365 CD LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 51.399 6.095 54.844 1.00 62.80 ATOM 3367 NZ LYS B 44 50.511 5.098 55.510 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.77 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3380 CA LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3382 CG LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 CD LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 CD LEU B 46 46.639 11.656 63.548 1.00 32.24 ATOM 3385 CD LEU B 46 46.639 11.656 63.548 1.00 32.24 ATOM 3386 O LEU B 46 46.639 11.656 63.548 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
ATOM 3366 CE LYS B 44 51.399 6.095 54.844 1.00 62.80 ATOM 3367 NZ LYS B 44 50.511 5.098 55.510 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 37.58 ATOM 3375 OE1 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3380 CA LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3386 O LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM		CG	LYS B	44					
ATOM 3367 NZ LYS B 44 50.511 5.098 55.510 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 37.58 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3380 CA LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3381 CB LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	MOTA	3365	CD	LYS B	44	5	0.970	7.532	55.127	1.00 61.03
ATOM 3367 NZ LYS B 44 50.511 5.098 55.510 1.00 65.34 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3373 CG GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 37.58 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3380 CA LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3386 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3366	CE	LYS B	44	5	1.399	6.095	54.844	1.00 62.80
ATOM 3368 C LYS B 44										
ATOM 3369 O LYS B 44										
ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 32.24 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	MOTA		С		44					
ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 32.24 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3369	0	LYS B	44	4	8.418	7.127	57.009	1.00 41.30
ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.865 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 32.24 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 CA LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	MOTA	3370	N	GLL B	45	4	9.797	8.517	58.100	1.00 42.18
ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36									50.460	
ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.90 29.36	ATOM									
ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.90 29.36	ATOM	3373	CG	GLU B	45	5.	2.694	7.887		
ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.90 29.36	MOTA	3374	CD	GLU B	45	5	3.998	8.504	58.813	1.00 34.34
ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										1 00 38 04
ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.90 29.36										
ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3376	OE2	GLU B						
ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3377	С	GLU B	45	4	9.368	7.403	60.238	
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ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CB LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
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ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATCM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3381		LEU B	46	4	7.501	9.889	62.019	
ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36									63.250	1.00 34.76
ATCM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATCM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATCM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATCM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATCM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
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ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
ATCM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36										
14 564 1 100 100 100 100 100 100 100 100 100										
	ATCM	3388	CA							1.00 29.36
	ATOM	3389	CB	ILE B	47	4	4.564	4.802	62.258	1.00 28.62

ATOM 3391 CGI ILE B 47										
ATOM 3395 COI LLE B 47		2200	cca	715 5	.17		43 161	4.205	62.407	1.00 28.80
ATOM 3399 CD LIE B 47										1.00 29.42
ATOM 3393 C ILE B 47	MOTA									
ATOM 3394	MOTA	3392	CD1	ILE B						
ATOM 3395 N LYS B 48 41.662 8.037 62.999 1.00 28.700 3393 CC LYS B 48 41.662 8.037 64.040 1.00 32.3700 3398 CC LYS B 48 40.517 8.840 63.414 1.00 36.3700 3398 CC LYS B 48 39.607 9.514 64.430 1.00 43.3700 3399 CD LYS B 48 39.607 9.514 64.430 1.00 43.3700 3400 CE LYS B 48 39.607 9.514 64.430 1.00 43.3700 3400 CE LYS B 48 39.607 9.514 64.430 1.00 43.3700 3400 CE LYS B 48 39.607 9.514 64.430 1.00 43.3700 3402 C LYS B 48 39.607 9.514 64.430 1.00 43.3700 3402 C LYS B 48 39.607 9.514 64.430 1.00 43.3700 3402 C LYS B 48 39.607 9.514 64.430 1.00 43.3700 3402 C LYS B 48 41.095 6.993 64.937 1.00 31.3700 3402 C LYS B 48 41.095 6.993 64.937 1.00 31.3700 3402 C LYS B 48 41.095 6.993 64.937 1.00 31.3700 3400 C LYS B 48 41.095 6.993 64.937 1.00 31.3700 3400 C LYS B 48 40.524 5.962 64.457 1.00 22.3700 3400 C LYS B 48 41.666 6.993 68.642 1.00 24.3700 3406 CB SER B 49 41.260 7.121 66.244 1.00 27.3700 3400 C LYS B 48 40.524 5.962 64.457 1.00 32.3700 3406 CB SER B 49 41.260 7.121 66.244 1.00 27.3700 3406 CB SER B 49 39.248 6.054 67.160 1.00 29.3700 3400 CB SER B 49 39.248 6.054 67.160 1.00 25.3700 3400 CB SER B 49 39.248 6.054 67.160 1.00 29.3700 3411 CA ARG B 50 38.723 4.859 67.409 1.00 26.3700 3411 CA ARG B 50 38.723 4.859 67.409 1.00 26.3700 3411 CA ARG B 50 37.278 4.658 67.430 1.00 25.3700 3411 CA ARG B 50 37.251 2.233 66.507 1.00 26.3700 3413 CG ARG B 50 37.251 2.233 66.507 1.00 26.3700 3414 CD ARG B 50 37.251 2.233 66.507 1.00 26.3700 3414 CD ARG B 50 37.251 2.233 66.507 1.00 26.3700 3414 CD ARG B 50 37.507 1.340 65.452 1.00 26.3700 3418 NNH ARG B 50 37.507 1.340 65.452 1.00 26.3700 3419 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3419 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3419 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3419 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3410 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3410 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3410 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3410 CD ARG B 50 37.507 1.340 65.462 1.00 26.3700 3410 CD ARG B 50 37.507 1.00 32.3700 3400 CD ARG B 5	MOTA	3393	С	ILE B	47		43.659			
ATOM 3395 N LYS B 48 42.514 7.475 62.999 1.00 28. ATOM 3396 CA LYS B 48 40.517 8.840 63.414 1.00 36. ATOM 3397 CB LYS B 48 40.517 8.840 64.430 1.00 43. ATOM 3399 CD LYS B 48 33.657 11.074 64.768 1.00 44. ATOM 3400 CE LYS B 48 37.657 11.074 64.768 1.00 44. ATOM 3401 NZ LYS B 48 37.657 11.074 64.768 1.00 44. ATOM 3401 NZ LYS B 48 37.657 11.074 64.768 1.00 42. ATOM 3403 O LYS B 48 40.524 5.962 64.457 1.00 24. ATOM 3403 O LYS B 48 40.524 5.962 64.457 1.00 24. ATOM 3403 O LYS B 48 40.524 5.962 64.457 1.00 25. ATOM 3406 CB SER B 49 40.770 6.168 67.232 1.00 25. ATOM 3407 OG SER B 49 40.770 6.168 67.232 1.00 25. ATOM 3408 C SER B 49 40.770 6.168 67.232 1.00 25. ATOM 3408 C SER B 49 42.559 6.858 68.777 1.00 31. ATOM 3401 N ARG B 50 38.723 4.859 67.409 1.00 24. ATOM 3401 N ARG B 50 37.238 4.658 67.409 1.00 26. ATOM 3411 CA ARG B 50 37.238 4.658 67.409 1.00 26. ATOM 3412 CB ARG B 50 37.231 2.233 66.507 1.00 25. ATOM 3413 CG ARG B 50 37.231 2.233 66.507 1.00 26. ATOM 3414 CD ARG B 50 37.006 -0.058 65.504 1.00 25. ATOM 3416 CZ ARG B 50 37.007 0.058 66.303 1.00 24. ATOM 3417 NH1 ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3419 C ARG B 50 37.007 0.058 66.307 1.00 26. ATOM 3419 C ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3410 N ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3412 CB ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3413 CR ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3414 CD ARG B 50 37.007 0.058 66.307 1.00 26. ATOM 3420 O ARG B 50 37.007 0.058 66.303 1.00 25. ATOM 3421 N PRO B 51 35.308 3.692 9.403 1.00 22. ATOM 3420 O ARG B 50 37.007 0.058 66.407 1.00 23. ATOM 3421 N PRO B 51 35.308 3.692 9.403 1.00 22. ATOM 3422 CB PRO B 51 35.308 3.692 9.403 1.00 22. ATOM 3423 CA PRO B 51 35.308 3.692 9.403 1.00 22. ATOM 3424 CB PRO B 51 35.308 3.692 9.403 1.00 22. ATOM 3426 CC PRO B 51 35.504 4.962 68.688 1.00 25. ATOM 3427 O PRO B 51 35.546 4.962 68.688 1.00 25. ATOM 3430 CB ALA B 52 35.357 0.058 7.759 1.408 1.00 26. ATOM 3431 CB ALA B 52 35.357 0.058 7.759 1.00 26. ATOM 3432 CB ALA B 52 35.357 0.058 7.759 1.00 26. ATOM 3434 CB ALA B			0	ILE B	47		44.063	6.755		
ATOM 3396 CA LYS B 48 40.517 8.840 63.414 1.00 32. ATOM 3397 CB LYS B 48 40.517 8.840 63.414 1.00 36. ATOM 3399 CD LYS B 48 39.607 9.514 64.430 1.00 43. ATOM 3400 CE LYS B 48 39.607 9.514 64.430 1.00 43. ATOM 3401 NZ LYS B 48 37.557 11.074 64.768 1.00 45. ATOM 3401 NZ LYS B 48 41.095 6.943 64.937 1.00 41. ATOM 3402 C LYS B 48 41.095 6.943 64.937 1.00 31. ATOM 3403 0 LYS B 48 41.095 6.943 64.937 1.00 31. ATOM 3403 0 LYS B 48 41.095 6.943 64.937 1.00 31. ATOM 3405 CA SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3406 CE SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3406 CE SER B 49 40.770 6.168 67.732 1.00 25. ATOM 3408 C SER B 49 42.539 6.858 68.777 1.00 31. ATOM 3409 0 SER B 49 38.555 7.034 66.879 1.00 28. ATOM 3410 N ARG B 50 37.278 4.658 67.430 1.00 24. ATOM 3410 N ARG B 50 37.278 4.658 67.430 1.00 24. ATOM 3411 CA ARG B 50 37.278 4.658 67.430 1.00 24. ATOM 3411 CA ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3412 CB ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3414 CD ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3412 CB ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3414 CD ARG B 50 37.278 4.658 67.430 1.00 26. ATOM 3414 CD ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3414 CD ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3414 CD ARG B 50 37.278 4.658 67.430 1.00 26. ATOM 3415 NE ARG B 50 37.278 4.658 67.497 1.00 23. ATOM 3417 NE ARG B 50 37.7278 4.658 67.497 1.00 23. ATOM 3418 NE ARG B 50 37.737 27.278 4.658 67.497 1.00 23. ATOM 3419 C ARG B 50 37.531 2.233 66.597 1.00 26. ATOM 3417 NE ARG B 50 37.737 27.278 4.658 67.497 1.00 23. ATOM 3418 NE ARG B 50 37.737 27.278 4.658 67.497 1.00 23. ATOM 3412 CD ARG B 50 37.531 2.233 66.597 1.00 26. ATOM 3421 CD ARG B 50 37.531 2.233 66.593 1.00 26. ATOM 3422 CD PRO B 51 35.700 -0.954 66.468 1.00 25. ATOM 3422 CD PRO B 51 35.700 -0.954 66.468 1.00 25. ATOM 3422 CD PRO B 51 35.700 -0.958 67.997 1.00 23. ATOM 3422 CD PRO B 51 35.700 -0.958 67.997 1.00 23. ATOM 3422 CD PRO B 51 35.700 -0.958 66.402 1.00 25. ATOM 3422 CD PRO B 51 35.700 -0.958 66.402 1.00 25. ATOM 3422 CD PRO B 51 35.700 -0.958							42.514	7.475	62.999	1.00 28.39
ATOM 3398 CG LYS B 48 39.607 9.514 64.430 1.00 36. ATOM 3399 CD LYS B 48 39.607 9.514 64.430 1.00 43. ATOM 3409 CD LYS B 48 39.607 9.514 64.768 1.00 44. ATOM 3401 NZ LYS B 48 37.657 11.074 64.768 1.00 44. ATOM 3401 NZ LYS B 48 37.657 11.074 64.768 1.00 45. ATOM 3402 C LYS B 48 37.657 11.074 65.643 1.00 42. ATOM 3403 O LYS B 48 41.095 6.943 64.937 1.00 31. ATOM 3404 N SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3405 CA SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3406 CB SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3407 OG SER B 49 41.260 7.121 66.244 1.00 27. ATOM 3408 C SER B 49 41.166 6.639 68.642 1.00 24. ATOM 3408 C SER B 49 39.248 6.054 67.160 1.00 29. ATOM 3409 O SER B 49 39.248 6.054 67.160 1.00 29. ATOM 3410 N ARG B 50 38.723 4.859 67.409 1.00 26. ATOM 3411 CA ARG B 50 37.278 4.658 67.370 1.00 28. ATOM 3412 CB ARG B 50 37.278 4.658 67.430 1.00 25. ATOM 3413 CG ARG B 50 37.251 2.233 66.507 1.00 26. ATOM 3414 CD ARG B 50 37.251 2.233 66.507 1.00 26. ATOM 3415 NE ARG B 50 37.251 2.233 66.507 1.00 26. ATOM 3416 CZ ARG B 50 37.251 2.233 66.468 1.00 25. ATOM 3417 NH1 ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.00 26. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.00 26. ATOM 3421 NH2 ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3421 NH2 ARG B 50 37.157 -2.168 66.402 1.00 25. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.00 25. ATOM 3421 O ARG B 50 37.157 -2.168 66.402 1.00 26. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.00 25. ATOM 3423 CA PRO B 51 35.738 3.949 4.217 70.802 1.00 26. ATOM 3421 NH2 ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3422 CD PRO B 51 35.264 2.118 70.325 1.00 28. ATOM 3423 CA PRO B 51 35.738 3.949 4.217 70.802 1.00 28. ATOM 3424 CB PRO B 51 35.730 -0.083 71.291 1.00 23. ATOM 3429 CA ALA B 52 35.355 1.00 27.772 2.151 1.00 26. ATOM 3421 NH2 ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3422 CD PRO B 51 35.264 2.118 70.325 1.00 28. ATOM 3423 CA PRO B 51 35.308 9.913 4.007 69.913 1.00 25. ATOM 3434 CG LYS B 54 26.445 3.3.204 75.268 1.00 26. ATOM 3435 CG LYS B 54 2										1.00 32.37
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ATOM 3402 C LYS B 48					48		37.657	11.074	64.768	
ATOM 3402 C LYS B 48							38.451	11.991	65.643	1,00 42.66
ATOM 3403 O LYS B 48		-							64.937	1.00 31.08
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ATOM 3410								4 859	67.409	1.00 26.13
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ATOM 3413 CG ARG B 50 37.231 2.233 66.507 1.00 26. ATOM 3415 NE ARG B 50 36.570 1.340 65.452 1.00 26. ATOM 3415 NE ARG B 50 37.006 -0.058 65.504 1.00 25. ATOM 3416 CZ ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3417 NH1 ARG B 50 37.006 -0.058 67.497 1.00 23. ATOM 3418 NH2 ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3417 NH1 ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3421 N PRO B 51 35.700 4.223 69.403 1.00 21. ATOM 3422 CD PRO B 51 35.700 4.223 69.403 1.00 25. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.00 25. ATOM 3424 CB PRO B 51 33.949 4.217 70.802 1.00 26. ATOM 3426 C PRO B 51 33.936 5.503 69.953 1.00 26. ATOM 3426 C PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3426 C PRO B 51 35.142 1.646 69.194 1.00 18 ATOM 3427 O PRO B 51 35.142 1.646 69.194 1.00 18 ATOM 3428 N ALA B 52 35.257 -0.083 71.221 1.00 23. ATOM 3429 CA ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3430 CB ALA B 52 35.237 -0.083 71.221 1.00 26. ATOM 3431 C ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3431 C ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3431 C ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3432 O ALA B 52 35.355 1.359 71.408 1.00 26. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 26. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 26. ATOM 3436 CB THR B 53 31.500 -1.760 70.596 1.00 26. ATOM 3437 CG2 THR B 53 31.507 -2.445 71.916 1.00 32. ATOM 3438 C THR B 53 31.507 -2.445 71.916 1.00 32. ATOM 3438 C THR B 53 31.579 -2.445 71.916 1.00 32. ATOM 3444 CD LYS B 54 28.396 -3.027 73.720 1.00 32. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.00 41. A	ATOM	3411	CA							
ATOM 3415 CD ARG B 50 ATOM 3416 CD ARG B 50 ATOM 3416 CZ ARG B 50 ATOM 3417 NH1 ARG B 50 ATOM 3418 NH2 ARG B 50 ATOM 3418 NH2 ARG B 50 ATOM 3419 C ARG B 50 ATOM 3421 N PRO B 51 ATOM 3422 CD PRO B 51 ATOM 3422 CD PRO B 51 ATOM 3424 CB PRO B 51 ATOM 3425 CG PRO B 51 ATOM 3426 C PRO B 51 ATOM 3427 O PRO B 51 ATOM 3428 N ALA B 52 ATOM 3428 N ALA B 52 ATOM 3428 N ALA B 52 ATOM 3430 CB ALA B 52 ATOM 3431 C ALA B 52 ATOM 3431 C ALA B 52 ATOM 3432 CA THR B 53 ATOM 3434 CA THR B 53 ATOM 3434 CA THR B 53 ATOM 3435 CB THR B 53 ATOM 3436 OG1 THR E 53 ATOM 3437 CG2 THR B 53 ATOM 3438 C THR B 53 ATOM 3438 C THR B 53 ATOM 3438 C THR B 53 ATOM 3439 O THR B 53 ATOM 3436 CG LYS B 54 ATOM 3437 CG2 THR B 53 ATOM 3438 C THR B 53 ATOM 3438 C THR B 53 ATOM 3438 C THR B 53 ATOM 3436 CG LYS B 54 ATOM 3437 CG2 LYS B 54 ATOM 3438 C THR B 53 ATOM 3436 CG LYS B 54 ATOM 3437 CG2 LYS B 54 ATOM 3442 CB LYS B 54 ATOM 3443 CG LYS B 54 ATOM 3443 CG LYS B 54 ATOM 3445 CG LYS B 54 ATOM 3446 NZ LYS B 54 ATOM 3447 CG LYS B 54 ATOM 3448 O LYS B 54 ATOM 3448 O LYS B 54 ATOM 3448 O LYS B 54 ATOM 3449 N GLU B 55 ATOM 3445 CG LYS B 54 ATOM 3446 NZ LYS B 54 ATOM 3447 CG LYS B 54 ATOM 3448 O LYS B 54 ATOM 3448 O LYS B 54 ATOM 3449 N GLU B 55 ATOM 3455 CG LYS B 54 ATOM 3449 N GLU B 55 ATOM 3451 CB GLU B 55 ATOM 3452 CG GLU B 55 ATOM 3453 CD GLU B 55 ATOM 3454 OE1 GLU B 55 ATOM 3455 CG GLU B 55 ATOM 3456 OE1 GLU B 55 ATOM 3457 OE1 GLU B 55 ATOM 3458 OE1 GLU B 55 ATOM 3458 OE1 GLU B 55 ATOM 3454 OE1 GLU B 55 ATOM 3455 OE1 GLU B 55 ATOM 3454 OE1 GLU B 55 ATOM 3454	ATOM .	3412	CB	ARG B						
ATOM 3414 CD ARG B 50 36.570 1.340 26. ADD 26. ATOM 3415 NE ARG B 50 37.066 -0.058 65.504 1.000 25. ATOM 3416 CZ ARG B 50 36.700 -0.924 66.468 1.000 26. ATOM 3417 NH1 ARG B 50 35.941 -0.558 67.497 1.000 23. ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.000 23. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.000 23. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.000 23. ATOM 3421 N PRO B 51 35.700 4.223 69.403 1.000 21. ATOM 3422 CD PRO B 51 35.700 4.223 69.243 1.000 21. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.000 25. ATOM 3423 CA PRO B 51 35.338 3.628 70.530 1.000 25. ATOM 3424 CB PRO B 51 33.936 5.503 69.953 1.000 26. ATOM 3426 C PRO B 51 35.264 2.118 70.325 1.000 28. ATOM 3426 C PRO B 51 35.264 2.118 70.325 1.000 28. ATOM 3428 N ALA B 52 35.257 -0.083 71.291 1.000 26. ATOM 3428 N ALA B 52 35.355 1.359 71.408 1.000 23. ATOM 3430 CB ALA B 52 35.237 -0.083 71.291 1.000 26. ATOM 3431 C ALA B 52 35.237 -0.083 71.291 1.000 26. ATOM 3431 C ALA B 52 35.237 -0.083 71.291 1.000 26. ATOM 3432 O ALA B 52 35.355 1.359 71.408 1.000 25. ATOM 3432 O ALA B 52 35.355 1.359 71.408 1.000 25. ATOM 3433 N THR B 53 33.321 -1.447 70.6551 1.000 26. ATOM 3434 CA THR B 53 31.900 -1.760 70.596 1.000 26. ATOM 3438 C THR B 53 31.500 -1.760 70.596 1.000 26. ATOM 3438 C THR B 53 31.507 -2.445 71.916 1.000 23. ATOM 3438 C THR B 53 31.597 -2.445 71.916 1.000 23. ATOM 3438 C THR B 53 31.597 -2.445 71.916 1.000 23. ATOM 3438 C THR B 53 31.597 -2.445 71.916 1.000 23. ATOM 3444 CD LYS B 54 28.396 -3.027 73.720 1.000 26. ATOM 3444 CD LYS B 54 28.396 -3.027 73.720 1.000 26. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.000 41. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3448 O LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.000 43. ATOM 3444 CD LY	ATOM	3413	CG	ARG B	50					
ATOM 3415 NE ARG B 50 37.006 -0.058 65.504 1.00 26. ATOM 3416 CZ ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3417 NH1 ARG B 50 35.941 -0.558 67.497 1.00 23. ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3419 C ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3420 O ARG B 50 37.782 3.392 69.403 1.00 22. ATOM 3421 N PRO B 51 35.700 4.223 69.243 1.00 22. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.00 25. ATOM 3423 CA PRO B 51 33.934 4.217 70.802 1.00 26. ATOM 3424 CB PRO B 51 33.934 4.217 70.802 1.00 26. ATOM 3425 CG PRO B 51 33.936 5.503 69.953 1.00 28. ATOM 3426 C PRO B 51 35.338 3.628 70.530 1.00 28. ATOM 3427 O PRO B 51 35.348 70.325 1.00 26. ATOM 3428 N ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3430 CB ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3431 C ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3432 O ALA B 52 35.357 -0.083 71.291 1.00 26. ATOM 3431 C ALA B 52 35.357 1.00 240 71.408 1.00 23. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 26. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 26. ATOM 3435 CB THR B 53 31.900 -1.760 70.596 1.00 26. ATOM 3436 OGI THR E 53 32.305 -3.950 69.642 1.00 25. ATOM 3439 O THR B 53 31.917 -2.117 68.103 1.00 23. ATOM 3439 O THR B 53 31.917 -2.117 68.103 1.00 23. ATOM 3439 O THR B 53 31.917 -2.117 68.103 1.00 23. ATOM 3439 CB LYS B 54 26.445 -3.324 77.916 1.00 26. ATOM 3441 CA LYS B 54 28.990 -3.140 73.514 1.00 30. ATOM 3442 CB LYS B 54 26.445 -3.324 77.2669 1.00 25. ATOM 3443 CC LYS B 54 26.445 -3.324 77.2609 1.00 26. ATOM 3444 CD LYS B 54 26.445 -3.3204 75.268 1.00 47. ATOM 3445 CE LYS B 54 26.445 -3.3204 75.268 1.00 47. ATOM 3448 O LYS B 54 26.445 -3.3204 75.268 1.00 47. ATOM 3449 N GLU B 55 30.657 -6.577 77.582 1.00 26. ATOM 3449 N GLU B 55 30.288 -6.965 70.579 1.00 33. ATOM 3449 N GLU B 55 30.288 -6.965 70.579 1.00 33. ATOM 3449 N GLU B 55 30.453 -8.737 68.767 1.00 33. ATOM 3449 N GLU B 55 30.453 -8.737 68.767 1.00 33. ATOM 3449 N GLU B 55 30.453 -8.737 68.767 1.00 33. ATOM 3445 OCI GLU B 55 30.653 -9.913 68.394 1.00 44. ATOM 3445 OCI GLU B 55 30.653 -9.913 68.394 1			CD	ARG B	50		36.570			
ATOM 3416 CZ ARG B 50 36.700 -0.924 66.468 1.00 26. ATOM 3417 NH1 ARG B 50 35.941 -0.558 67.497 1.00 23. ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3420 O ARG B 50 37.782 3.392 69.403 1.00 21. ATOM 3421 N PRO B 51 35.700 4.223 69.243 1.00 21. ATOM 3422 CD PRO B 51 35.700 4.223 69.243 1.00 25. ATOM 3423 CA PRO B 51 34.554 4.962 68.688 1.00 25. ATOM 3424 CB PRO B 51 33.949 4.217 70.802 1.00 26. ATOM 3425 CG PRO B 51 33.949 4.217 70.802 1.00 26. ATOM 3426 C PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3427 O PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3428 N ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3429 CA ALA B 52 35.237 -0.083 71.291 1.00 23. ATOM 3430 CB ALA B 52 35.237 -0.083 71.291 1.00 23. ATOM 3431 C ALA B 52 35.811 -0.757 72.521 1.00 26. ATOM 3432 O ALA B 52 33.332 -0.324 71.223 1.00 25. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 22. ATOM 3434 CA THR B 53 33.321 -1.447 70.651 1.00 22. ATOM 3438 C THR B 53 31.567 -2.732 69.456 1.00 30. ATOM 3439 O THR B 53 32.305 -3.950 69.642 1.00 25. ATOM 3439 O THR B 53 31.579 -2.445 71.916 1.00 33. ATOM 3438 C THR B 53 31.579 -2.445 71.916 1.00 33. ATOM 3440 N LYS B 54 29.909 -3.140 73.514 1.00 34. ATOM 3441 CA LYS B 54 29.909 -3.140 73.514 1.00 34. ATOM 3444 CB LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3445 CE LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3447 C LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3449 N GLU B 55 30.577 -6.577 72.232 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3449 N GLU B 55 30.588 -6.965 70.579 1.00 23. ATOM 3450 CB GLU B 55 30.638 -9.913 68.394 1.00 41. ATOM 3451 CB GLU B 55 30.638 -9.913 68.394 1.00 41. ATOM 3454 OEL GLU B 55 30.638 -9.913 68.394 1.00 41.				ARG B	50		37.006	-0.058	65.504	
ATOM 3417 NH1 ARG B 50 35.941 -0.558 67.497 1.00 23. ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3420 O ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3421 N PRO B 51 35.700 4.223 69.243 1.00 22. ATOM 3422 CD PRO B 51 35.700 4.223 69.243 1.00 22. ATOM 3422 CD PRO B 51 34.554 4.962 68.688 1.00 25. ATOM 3423 CA PRO B 51 33.936 5.503 69.953 1.00 28. ATOM 3424 CB PRO B 51 33.936 5.503 69.953 1.00 28. ATOM 3425 CG PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3427 O PRO B 51 35.364 2.118 70.325 1.00 26. ATOM 3428 N ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3429 CA ALA B 52 35.237 -0.083 71.291 1.00 23. ATOM 3430 CB ALA B 52 35.811 -0.757 72.521 1.00 26. ATOM 3431 C ALA B 52 35.811 -0.757 72.521 1.00 26. ATOM 3432 O ALA B 52 35.811 -0.757 72.521 1.00 26. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 22. ATOM 3434 CA THR B 53 31.567 -2.732 69.456 1.00 26. ATOM 3435 CB THR B 53 31.567 -2.732 69.456 1.00 25. ATOM 3438 C THR B 53 31.567 -2.732 69.456 1.00 26. ATOM 3439 O THR B 53 31.567 -2.732 69.456 1.00 26. ATOM 3440 N LYS B 54 30.300 -2.504 72.268 1.00 26. ATOM 3441 CA LYS B 54 28.996 -3.027 73.720 1.00 34. ATOM 3443 CG LYS B 54 28.396 -3.027 73.720 1.00 34. ATOM 3444 CD LYS B 54 28.396 -3.027 73.720 1.00 34. ATOM 3445 CE LYS B 54 26.445 -3.204 75.268 1.00 47. ATOM 3446 NZ LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3447 C LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -3.204 75.268 1.00 47. ATOM 3448 O LYS B 54 26.464 -3.204 75.268 1.00 47. ATOM 3447 C LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3449 CA GLYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3449 CB LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3441 CB LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3442 CB LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3445 CB LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3446 D LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3447 C LYS B 54 26.464 -2.257 77.582							36.700	-0.924	66.468	1.00 26.09
ATOM 3418 NH2 ARG B 50 37.157 -2.168 66.402 1.00 23. ATOM 3419 C ARG B 50 36.937 4.037 68.775 1.00 23. ATOM 3420 O ARG B 50 37.782 3.392 69.403 1.00 22. ATOM 3421 N PRO B 51 35.700 4.223 69.243 1.00 22. ATOM 3422 CD PRO B 51 35.700 4.223 69.243 1.00 22. ATOM 3422 CD PRO B 51 35.338 3.628 70.530 1.00 25. ATOM 3424 CB PRO B 51 33.936 5.503 69.953 1.00 28. ATOM 3425 CG PRO B 51 33.936 5.503 69.953 1.00 28. ATOM 3426 C PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3427 O PRO B 51 35.264 2.118 70.325 1.00 26. ATOM 3428 N ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3429 CA ALA B 52 35.355 1.359 71.408 1.00 23. ATOM 3430 CB ALA B 52 35.337 -0.083 71.291 1.00 23. ATOM 3431 C ALA B 52 35.237 -0.083 71.291 1.00 26. ATOM 3431 C ALA B 52 33.733 -0.324 71.223 1.00 26. ATOM 3432 O ALA B 52 33.733 -0.324 71.223 1.00 26. ATOM 3431 C ALA B 52 33.733 -0.324 71.223 1.00 26. ATOM 3433 N THR B 53 33.321 -1.447 70.651 1.00 22. ATOM 3434 CA THR B 53 33.990 -1.760 70.596 1.00 26. ATOM 3436 OGI THR B 53 33.990 -1.760 70.596 1.00 26. ATOM 3437 CG2 THR B 53 31.900 -1.760 70.596 1.00 26. ATOM 3438 C THR B 53 31.900 -1.760 70.596 1.00 26. ATOM 3439 O THR B 53 31.579 -2.445 71.916 1.00 30. ATOM 3430 CB LYS B 54 28.396 -3.027 73.720 1.00 23. ATOM 3440 N LYS B 54 29.909 -3.140 73.514 1.00 34. ATOM 3445 CB LYS B 54 28.396 -3.027 73.720 1.00 26. ATOM 3448 O LYS B 54 28.396 -3.027 73.720 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 47. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3448 O LYS B 54 26.464 -2.257 77.582 1.00 26. ATOM 3449 N GLU B 55 30.288 -6.965 70.579 1.00 23. ATOM 3450 CB GU B 55 30.453 -8.737 68.767 1.00 38. ATOM 3451 CB GU B 55 30.453 -8.737 68.767 1.00 38. ATOM 3452 CG GU B 55 30.658 -9.913 68.394 1.00 44. ATOM 3454 OCI GU B 55 30.658 -9.913 68.794 1.00 10.00 40.								-0.558	67.497	1.00 23.42
ATOM 3418 NR 2 ARG B 50 ATOM 3420 O ARG B 50 ATOM 3421 N PRO B 51 ATOM 3421 N PRO B 51 ATOM 3422 CD PRO B 51 ATOM 3422 CD PRO B 51 ATOM 3422 CD PRO B 51 ATOM 3424 CB PRO B 51 ATOM 3424 CB PRO B 51 ATOM 3425 CG PRO B 51 ATOM 3427 O PRO B 51 ATOM 3427 O PRO B 51 ATOM 3428 N ALA B 52 ATOM 3428 N ALA B 52 ATOM 3429 CA ALA B 52 ATOM 3430 CB ALA B 52 ATOM 3430 CB ALA B 52 ATOM 3431 C ALA B 52 ATOM 3432 N THR B 53 ATOM 3433 N THR B 53 ATOM 3434 CA THR B 53 ATOM 3435 CB THR B 53 ATOM 3436 OG1 THR B 53 ATOM 3437 CG2 THR B 53 ATOM 3438 C THR B 53 ATOM 3436 CG LYS B 54 ATOM 3441 CA LYS B 54 ATOM 3442 CB LYS B 54 ATOM 3443 CG LYS B 54 ATOM 3444 CD LYS B 54 ATOM 3445 CG LYS B 54 ATOM 3445 CG LYS B 54 ATOM 3446 NZ LYS B 54 ATOM 3447 C LYS B 54 ATOM 3448 D LYS B 54 ATOM 3448 D LYS B 54 ATOM 3449 N GLU B 55 ATOM 3450 CG GLU B 55 ATOM 3450 CG GLU B 55 ATOM 3450 CG GLU B 55 ATOM 3454 OE1 GLU B 55 ATOM 3454 OE1 GLU B 55 ATOM 3455 OE1 GLU B 55 ATOM 3456 OE1 GLU B 55 ATOM 3457 OE1 GLU B 55 ATOM 3458 OE1 GLU B 55 ATOM 3459 OE1 GLU B									66.402	1.00 23.91
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ATOM 3442 CB LYS B 54 ATOM 3443 CG LYS B 54 ATOM 3444 CD LYS B 54 ATOM 3445 CE LYS B 54 ATOM 3446 NZ LYS B 54 ATOM 3446 NZ LYS B 54 ATOM 3447 C LYS B 54 ATOM 3448 O LYS B 54 ATOM 3448 O LYS B 54 ATOM 3449 N GLU B 55 ATOM 3450 CA GLU B 55 ATOM 3451 CB GLU B 55 ATOM 3452 CG GLU B 55 ATOM 3453 CD GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3456 OEI GLU B 55 ATOM 3457 OEI GLU B 55 ATOM 3458 OEI GLU B 55 ATOM 3458 OEI GLU B 55 ATOM 3459 OEI GLU B 55		3441	CA	LYS B	54		29.909			
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ATOM 3444 CD LYS B 54 26.445 -3.204 75.268 1.00 41 ATOM 3445 CE LYS B 54 26.008 -3.366 76.709 1.00 43 ATOM 3446 NZ LYS B 54 26.464 -2.257 77.582 1.00 47 ATOM 3446 NZ LYS B 54 30.329 -4.603 73.442 1.00 29 ATOM 3448 D LYS E 54 30.779 -5.183 74.430 1.00 26 ATOM 3449 N GLU B 55 30.196 -5.187 72.25600 23 ATOM 3450 CA GLU B 55 30.577 -6.577 72.032 1.00 26 ATOM 3451 CB GLU B 55 30.288 -6.965 70.579 1.00 26 ATOM 3452 CG GLU B 55 30.671 -8.400 70.237 1.00 36 ATOM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 36 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 OEI GLU B 55 30 ATO							27.947	-3.351		
ATOM 3445 CE LYS B 54 26.008 -3.366 76.709 1.00 43 43 45 ATOM 3446 NZ LYS B 54 26.464 -2.257 77.582 1.00 47 ATOM 3446 NZ LYS B 54 30.329 -4.603 73.442 1.00 29 ATOM 3448 O LYS B 54 30.779 -5.183 74.430 1.00 26 ATOM 3449 N GLU B 55 30.196 -5.187 72.25600 23 ATOM 3450 CA GLU B 55 30.577 -6.577 72.032 1.00 26 ATOM 3451 CB GLU B 55 30.288 -6.965 70.579 1.00 24 ATOM 3452 CG GLU B 55 30.671 -8.400 70.237 1.00 38 ATOM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 38 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30 ATOM 3454 OEI GLU B 55									75.268	1.00 41.13
ATOM 3445 CE LIS B 54 ATOM 3446 NZ LYS B 54 ATOM 3447 C LYS B 54 ATOM 3448 O LYS B 54 ATOM 3448 O LYS B 54 ATOM 3449 N GLU B 55 ATOM 3450 CA GLU B 55 ATOM 3451 CB GLU B 55 ATOM 3452 CG GLU B 55 ATOM 3453 CD GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3456 OEI GLU B 55 ATOM 3457 OEI GLU B 55 ATOM 3458 OEI GLU B 55 ATOM 3458 OEI GLU B 55 ATOM 3459 OEI GLU B 55 ATOM 3459 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3456 OEI GLU B 55 ATOM 3457 OEI GLU B 55 ATOM 3458 OEI GLU B 55		_							76.709	1.00 43.39
ATOM 3446 NZ LIS 5 54 30.329 -4.603 73.442 1.00 29 ATOM 3448 0 LYS 5 54 30.779 -5.183 74.430 1.00 26 ATOM 3449 N GLU 5 55 30.196 -5.187 72.25600 23 ATOM 3450 CA GLU 5 55 30.577 -6.577 72.032 1.00 26 ATOM 3451 CB GLU 5 55 30.288 -6.965 70.579 1.00 26 ATOM 3452 CG GLU 5 55 30.671 -8.400 70.237 1.00 36 ATOM 3453 CD GLU 5 55 30.453 -8.737 68.767 1.00 38 ATOM 3454 0E1 GLU 5 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.608 -9.913 68.394 1.00 40 ATOM 3454 0E1 GLU 5 55 30.101 -7.833 67.984 1.00 40 ATOM 3454 0E1 GLU 5 55 30 ATOM 3454 0E1 GLU 5 65 ATOM 34	MOTA	_								
ATCM 3447 C LYS B 54 30.329 -4.603 73.432 1.00 26 ATCM 3448 O LYS B 54 30.779 -5.183 74.430 1.00 26 ATCM 3449 N GLU B 55 30.196 -5.187 72.256 .00 23 ATCM 3450 CA GLU B 55 30.288 -6.965 70.579 1.00 24 ATCM 3451 CB GLU B 55 30.671 -8.400 70.237 1.00 33 ATCM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 38 ATCM 3453 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OEI GLU B 55 30 ATCM 3454 OEI GLU B 55 ATCM	MOTA									
ATOM 3448 O LYS B 54 ATOM 3449 N GLU B 55 ATOM 3450 CA GLU B 55 ATOM 3451 CB GLU B 55 ATOM 3452 CG GLU B 55 ATOM 3453 CD GLU B 55 ATOM 3453 CD GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3454 OEI GLU B 55 ATOM 3455 OEI GLU B 55 ATOM 3456 OEI GLU B 55 ATOM 3457 OEI GLU B 55 ATOM 3458 OEI GLU B 55		3447	С							
ATOM 3449 N GLU B 55 30.196 -5.187 72.256 1.00 25 ATOM 3450 CA GLU B 55 30.577 -6.577 72.032 1.00 26 ATOM 3451 CB GLU B 55 30.288 -6.965 70.579 1.00 26 ATOM 3452 CG GLU B 55 30.671 -8.400 70.237 1.00 35 ATOM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 38 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40			၁							2.00 20.71
ATOM 3450 CA GLU 3 55 30.577 -6.577 72.032 1.00 28 ATOM 3451 CB GLU B 55 30.288 -6.965 70.579 1.00 24 ATOM 3452 CG GLU B 55 30.671 -8.400 70.237 1.00 38 ATOM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 38 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OEI GLU B 55 30.638 -9.913 68.394 1.00 40				GLU E	55					
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ATCM 3451 CG GLU B 55 30.671 -8.400 70.237 1.00 33 ATCM 3453 CD GLU B 55 30.453 -8.737 68.767 1.00 38 ATCM 3454 OE1 GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OE1 GLU B 55 30.638 -9.913 68.394 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40 ATCM 3454 OE1 GLU B 55 30 ATCM 3554 OE1 GLU B							30.288	-6.965		
ATOM 3452 CG GLU B 55 30.453 -8.737 68.767 1.00 38 ATOM 3453 CD GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OE1 GLU B 55 30.638 -9.913 67.984 1.00 40										1.00 33.40
ATOM 3454 OE1 GLU B 55 30.638 -9.913 68.394 1.00 40 ATOM 3454 OE1 GLU B 55 30.101 -7.833 67.984 1.00 40								_		1.00 38.49
ATOM 3454 OEI GLU B 55 30 101 -7.833 67.984 1.00 40										
							20.030	-2.512	4	
	ATOM	3455	OE	2 GLU	5 55		30.101	-1.655	5509	. 1.00

- mov	2156	_	GLU B	55	32.066	-6.808	72.345	1.00 25.82
ATOM	3456	С						1.00 23.83
ATOM	3457	0	GLU B	55	32.429	-7.765	73.033	
ATOM	3458	N	GLU B	56	32.931	-5.938	71.835	1.00 25.04
ATOM	3459	CA	GLU B	56	34.365	-6.079	72.093	1.00 25.30
			GLU B	56	35.141	-5.003	71.334	1.00 24.31
atom	3460	CB						1.00 32.15
ATOM-	3461	CG	GLU B	56	34.866	-5.039	69.836	
MOTA	3462	CD	GLU B	56	35.512	-3.903	69.073	1.00 31.43
ATOM	3463	OE1	GLU B	56	35.486	-2.759	69.568	1.00 28.54
					36.012	-4.147	67.959	1.00 28.89
ATOM	3464	OE2	GLU B	56				
ATOM	3465	С	GLU B	56	34.653	-5.988	73.595	
ATOM	3466	0	GLU B	56	35.450	-6.766	74.137	1.00 25.07
ATOM	3467	N	LEU B	57	33.996	-5.050	74.272	1.00 24.52
•			LEU B	57	34.203	-4.891	75.702-	1.00 27.34
ATOM	3468	CA					76.231	1.00 22.79
ATOM	3469	CB	LEU B	57	33.416	-3.694		
ATOM	3470	CG	LEU B	57	33.859	-2.320	75.722	1.00 23.57
MOTA	3.471	CD1	LEU B	57	33.008	-1.247	76.366	1.00 22.27
	3472	CD2	LEU B	57	35.342	-2.089	76.061	1.00 17.24
ATOM			LEU B	57	33.785	-6.144	76.452	1.00 26.92
MOTA	3473	С						1.00 24.06
ATOM	3474	0	LEU B	57	34.458	-6.568	77.396	
ATOM	3475	N	LEU B	58	32.670	-6.732	76.029	1.00 23.35
MOTA	3476	CA	LEU B	58	32.154	-7.931	76.674	1.00 25.60
	3477	CB	LEU B	58	30.718	~8.207	76.221	1.00 28.50
MOTA						-7.110	76.649	1.00 30.91
MOTA	3478	CG	LEU B	58	29.734			
ATOM	3479	CD1	LEU B	58	28.323	-7.468	76.212	1.00 28.93
MOTA	3480	CD2	LEU B	58	29.794	-6.945	78.157	1.00 33.44
ATOM	3481	C	LEU B	58	33.027	-9.153	76.446	1.00 24.59
	3482		LEU B	58	32.760	-10.216	76.991	1.00 19.76
MOTA		0				-9.006	75.630	1.00 23.99
ATOM	3483	N	LEU B	59	34.065			
ATOM	3484	CA	LEU B	59		-10.108	75.411	1.00 25.11
ATOM	3485	CB	LEU B	59	36.018	-9.757	74.332	1.00 21.64
ATOM	3486	CG	LEU B	59	35.483	~9.652	72.905	1.00 24.24
		CD1		59	36.585	-9.177	71.975	1.00 24.25
MOTA	3487					-11.014	72.468	1.00 19.91
MOTA	3488	CD2	LEU B	59	34.957			
ATOM	3489	С	LEU B	59	35.699	-10.371	76.733	1.00 23.84
MOTA	3490	0	LEU B	59	36.150	-11.489	76.992	1.00 19.39
ATOM	3491	N	PHE B	60	35.793	-9.344	77.577	1.00 21.80
	3492	CA	PHE B	60	36.462	-9.510	78.8 7 6	1.00 23.08
ATOM					37.809	-8.770	78.908	1.00 18.22
ATOM	3493	CB	PHE B	60				1.00 21.72
ATOM	3494	CG	PHE B	60	38.544	-8.906	80.230	
ATOM	3495	CD1	PHE B	60	38.975	-10.157	80.680	1.00 19.23
ATOM	3496	CD2	PHE B	60	38.757	-7.791	81.048	1.00 17.75
	3497	CE1		60	39.602	-10.301	81.927	1.00 18.80
MOTA					39.384	-7.923	82.297	1.00 19.23
ATOM	3498	CE2		60				1.00 16.10
ATOM	3499	CZ	PHE B	60	39.807	-9.184	82.737	
MOTA	3500	С	PHE B	60	35.648	-9.069	80.083	1.00 21.58
ATOM	3501	0	PHE B	60	35.508	-9.822	81.040	1.00 22.21
	3502	N	HIS B	61	35.128	-7.847	80.055	1.00 20.65
ATOM					34.362	-7.336	81.184	1.00 23.32
ATOM	3503	CA	HIS B	61		-5.807	81.229	1.00 27.60
ATOM	3504	CB	HIS B	61	34.422			
ATOM	3505	CG	·HIS B	61	35.800	-5.259	81.440	1.00 31.83
ATOM	3506	CD2	HIS B	61	36.466	-4.940	82.575	1.00 26.86
	3507		HIS B	61	36.669	-5.003	80.401	1.00 34.35
ATOM				61	37.810	-4.546	80.887	1.00 34.78
ATOM	3508		HIS B					1.00 36.27
ATOM	3509	NE2	HIS B	61	37.713	-4.499	82.204	
ATOM	3510	С	HIS B	61	32.902	-7.775	81.198	1.00 28.04
ATOM	3511	0	HIS B	61	32.349	-8.167	80.176	1.00 25.70
	3512	N	THR B	62	32.276		82.367	1.00 25.25
ATOM					30.882	-8.084	82.506	1.00 25.35
ATOM	3513	CA	THR B	62				1.00 25.47
ATOM	3514	CB	THR B	62	30.578	-8.549	83.932	
ATOM	3515	0G1	THR B	62	30.783	-7.462	84.843	1.00 28.62
ATOM	3516	CG2		62	31.482	-9.701	84.315	1.00 21.32
			THR B	62	29.931		82.162	1.00 26.06
ATOM	3517	C			30.287		82.254	1.00 24.14
ATOM	3518	0	THR B	62				1.00 28.01
ATOM	3519	N	GLU B	63	28.718		81.759	1.00 20.01
ATCM	3520	CA	GLU B	63	27.681		81.389	1.00 30.77
1TCM	3521	CB	GLU B	63	26.374	-7.094	81.114	1.00 33.97
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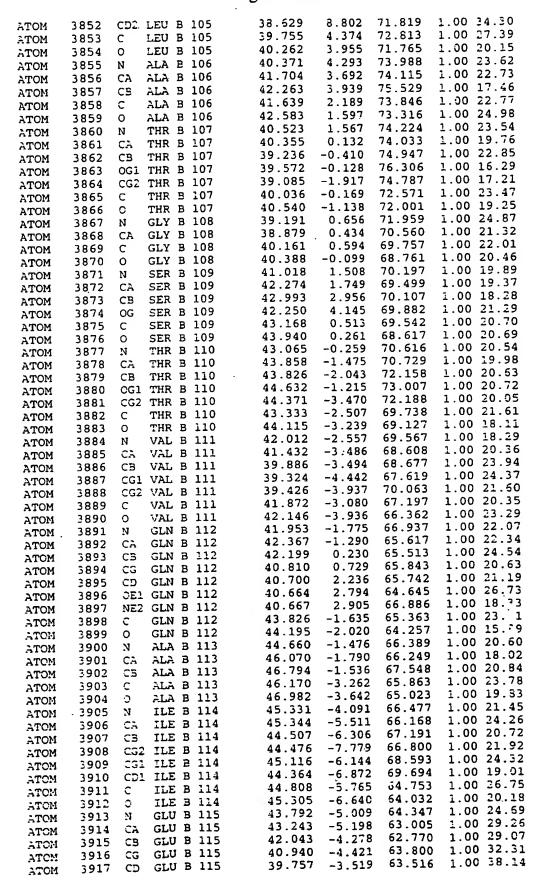
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ATOM	3522	CG ·	GLU E	3 6	53	25.213	-6.210	80.667	1.00 41.12
	3523		GLU I		53	25.189	-5.987	79.168	1.00 44.47
MOTA			-		53	24.361	-5.177	78.689	1.00 42.64
MOTA	3524		GLU I					78.465	1.00 45.96
MOTA	3525	OE2	GLU I		53	25.992	-6.640		
ATOM	3526	С	GLU- i	3 6	63	27.436	-5.326	82.498	1.00 27.29
	3527		GLU 1	3 (53	27.381	-4.118	82.252	1.00 25.13
ATOM					54	27.272	-5.834	83.713	1.00 24.38
MOTA	3528		ASP I				-5.023	84.897	1.00 29.27
MOTA	3529		ASP 1		54	27.010			
ATOM	3530	CB	ASP I	в (64	26.887	-5.944	86.112	
MOTA	3531		ASP 1	в (64	28.022	-6.935	86.198	1.00 50.77
			ASP	-	64	29.128	-6.540	86.630	1.00 52.71
MOTA	3532					27.812	-8.106	85.802	1.00 51.98
ATOM	3533		ASP		64				1.00 26.49
MOTA	3534	C	ASP :	В	64	28.075	-3.967	85.143	
ATOM	3535	0	ASP :	В	64	27.768	-2.806	85.422	1.00 18.33
	3536	N	TYR :		65	29.332	-4.373	85.052	1.00 22.75
MOTA			TYR		65	30.420	-3.435	85.251	1.00 19.32
MOTA	3537	CA					-4.186	85.256	1.00 16.59
MOTA	3538	CB	TYR		65	31.751			1.00 19.19
MOTA	3539	CG	TYR	В	65	32.949	-3.285	85.366	
ATOM	3540	CD1	TYR	В.	65	33.033	-2.328	86.383	1.00 21.35
	3541	CE1	TYR		65	34.135	-1.489	86.489	1.00 18.32
MOTA					65	34.004	-3.382	84.456	1.00 18.65
ATOM	3542	CD2	TYR					84.554	1.00 21.01
ATOM	3543	CE2	TYR		65	35.116	-2.544		1.00 21.01
MOTA	3544	CZ	TYR	В	65	35.172	-1.601	85.573	1.00 20.61
	3545	ОН	TYR	В	65	36.262	-0.775	85.682	1.00 17.77
MOTA			TYR		65	30.392	-2.373	84.146	1.00 22.01
MOTA	3546	C				30.399	-1.167	84.421	1.00 18.20
MOTA	3547	0	TYR	_	65				1.00 19.49
MOTA	3548	N	ILE	В	66	30.330	-2.815	82.894	
ATOM	3549	CA	ILE	B	66	30.305	-1.870	81.786	1.00 19.68
ATOM	3550	CB	ILE	В	66	30.208	-2.592	80.432	1.00 23.31
		CG2			66	30.200	-1.571	79.303	1.00 21.30
ATOM	3551					31.400	-3.541	80.260	1.00 27.67
MOTA	3552	CG1	ILE		66			80.291	1.00 29.29
ATOM	3553	CD1	ILE	В	66	32.758	-2.839		
ATOM	3554	С	ILE	В	66	29.128	-0.909	81.940	
ATOM	3555	0	ILE	В	66	29.294	0.309	81.848	1.00 23.36
	3556	N	ASN		67	27.939	-1.447	82.198	1.00 24.98
MOTA					67	26.782	-0.580	82.363	1.00 27.70
MOTA	3557	CA	ASN				-1.389	82.580	1.00 25.58
ATOM	3558	CB	ASN		67	25.492			1.00 26.91
ATOM	3559	CG	ASN	В	67	25.081	-2.183	81.341	
MOTA	3560	OD1	ASN	В	67	25.199	-1.701	80.220	1.00 31.48
	3561	ND2			67	24.572	-3.387	81.545	1.00 23.80
MOTA					67	26.982	0.401	83.513	1.00 25.34
MOTA	3562	С	ASN				1.539	83.448	1.00 22.53
ATOM	3563	0	ASN		67	26.524			1.00 23.65
ATOM	3564	N	THR	В	68	27.664	-0.031	84.568	1.00 25.05
ATOM	3565	CA	THR	В	68	27.903	0.863	85.696	1.00 25.25
	3566	СВ	THR		68	28.516	0.119	86.891	1.00 29.08
ATOM	-				68	27.561	-0.826	87.396	1.00 25.94
MOTA	3567	OG1				28.894	1.100	88.002	1.00 22.90
ATOM	3568	CG2	THR		68			85.287	1.00 25.91
MOTA	3569	С	THR	Б	68	28.818	2.009		1.00 28.47
ATOM	3570	0	THR	В	68	28.576	3.156	85.661	
ATOM	3571	N	LEU		69	29.861	1.702	84.519	1.00 25.13
		CA	LEU		69	30.788	2.729	84.054	· 1.00 24.37
MOTA	3572					31.915	2.122	83.201	1.00 21.32
ATOM	3573	CB	LEU		69			83.889	1.00 22.33
MOTA	3574	CG	LEU		69	32.960	1.231		1.00 22.57
ATOM	3575	CD1	LEU	В	69	34.006	0.786	82.859	
	3576	CD2			69	33.643	2.000	85.008	1.00 23.20
MOTA			LEU		69	30.036	3.764	83.229	1.00 23.02
ATOM .	3577	C				30.190	4.966	83.444	1.00 18.98
ATOM	3578	0	LEU		69				1.00 19.62
ATOM	3579	N	MET	3	70	29.218	3.290	82.294	1.00 15.02
ATOM	3580	CA	MET		70	28.449	4.181	81.434	
		CЗ	MET		70	27.660	3.371	80.401	1.00 24.80
ATOM	3581				70	28.531	2.511	79.490	1.00 30.37
ATOM	3582	CG	MET						
ATOM	3583	SD	MET		70	27.592			
ATOM	3584	CE	MET	В	70	26.922			
	3585	C	MET		70	27.489	5.062		
ATOM		ō	MET		70	27.391		82.009	
ATOM	3586		GLU		71	26.786			
atom	3587	N	370	Ð	, _	20.700	3.300		

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MOTA	3588	ÇA	GLU E		25.837	5.207	84.008	1.00 27.45
MOTA	3589	CB	GLU E	3 71	25.014	4.268	84.889	1.00 30.70
ATOM	3590	CG	GLU E	3 71	24.072	5.005	85.832	1.00 33.61
	3591	CD	GLU E		23.044	5.867	85.096	1.00 37.51
ATOM					22.333	6.638	85.773	1.00 35.47
MOTA	3592	OE1	GLU E		22.934	5.769	83.849	1.00 31.03
MOTA	3593		GLU E					1.00 29.15
ATOM	3594	С	GLU E		26.559	6.209	84.887	
MOTA	3595	0	GLU E	3 71	26.115	7.341	85.035	1.00 23.96
ATOM	3596	N	ALA E	3. 72	27.671	5.781	85.481	1.00 27.76
ATOM	3597	CA	ALA E	_	28.454	6.662	86.340	1.00 27.58
	3598	CB	ALA I		29.663	5.920	86.909	1.00 23.24
ATOM					28.924	7.886	85.563	1.00 28.07
atom	3599	C	ALA E			8.999	86.079	1.00 23.22
ATOM	3600	0	ALA E		28.895			
MOTA	3601	N	GLU I		29.356	7.684	84.322	1.00 26.40
ATOM	3602	CA	GLU I	B 73	29.846	8.801	83.529	1.00 29.06
ATOM	3603	CB	GLU 1	B 73	30.658	8.314	82.325	1.00 29.48
ATOM	3604	CG	GLU I	в 73	31.162	9.466	81.443	1.00 31.00
ATOM	3605	CD	GLU I		31.938	9.009	80.216	1.00 34.37
			GLU I		33.059	8.461	80.356	1.00 28.41
MOTA	3606				31.419	9.203	79.100	1.00 30.59
MOTA	3607		GLU I			9.734	83.045	1.00 31.92
ATOM	3608	С	GLU 1		28.744			
MOTA	3609	0	GLU I	B 73	28.894	10.951	83.104	1.00 35.69
ATOM	3610	N	ARG 1	B 74	27.633	9.186	82.570	1.00 33.53
ATOM	3611	CA	ARG I	B 74	26.583	10.067	82.081	1.00 38.64
	3612	CB	ARG		25.456	9.280	81.403	1.00 39.90
ATOM		CG	ARG		24.448	8.706	82.363	1.00 46.67
ATOM	3613		ARG I		23.174	8.311	81.646	1.00 47.53
ATOM	3614	CD			22.076	8.153	82.594	1.00 55.58
ATOM	3615	NE	ARG				83.362	1.00 56.04
MOTA	3616	CZ	ARG :		21.609	9.136		
MOTA	3617	NH1	ARG	B 74	22.142	10.351	83.297	1.00 58.93
MOTA	3618	NH2	ARG	B 74	20.601	8.910	84.192	1.00 53.62
MOTA	3619	С	ARG	B 74	26.008	10.914	83.222	1.00 35.84
ATOM	3620	o	ARG	B 74	25.778	12.107	83.048	1.00 29.44
	3621	N	SER		25.794	10.302	84.386	1.00 31.02
ATOM		CA	SER		25.243	11.014	85.539	1.00 31.99
MOTA	3622				24.592	10.038	86.510	1.00 34.47
ATOM	3623	CB	SER			9.228	87.123	1.00 34.33
ATOM	3624	OG	SER		25.581			1.00 35.42
ATOM	3625	С	SER		26.339	11.754	86.288	
ATOM	3626	0	SER	B 75	26.060	12.555	87.180	1.00 33.45
ATOM	3627	N	GLN	B 76	27.584	11.473	85.922	1.00 33.25
ATOM	3628	CA	GLN	B 76	28.739	12.082	86.565	1.00 35.61
ATOM	3629	CB	GLN		28.818	13.572	86.241	1.00 30.11
	3630	CG	GLN		30.216	14.112	86.390	1.00 39.13
ATOM		CD	GLN		31.124	13.681	85.248	1.00 33.54
ATOM	3631				31.052	12.546	84.761	1.00 29.21
ATOM	3632	OE1					84.827	1.00 40.93
ATOM	3633	NE2			31.995	14 583		
ATOM	3634	С	GLN		28.624	11 892	88.079	1.00 37.88
ATOM	3635	၁	GLN	B 76	28.901	12 308	88.858	1.00 32.74
ATOM	3636	N	SER		28.209	10.697	88.488	1.00 34.72
ATOM	3637	CA	SER		28.047	10.382	89.901	1.00 37.07
ATOM	3638	СВ	SER		26.635	10.738	90.371	
		CG	SER		25.678	9.941	89.688	1.00 39.03
MOTA	3639				28.265	8.897	90.112	1.00 35.95
MOTA	3640	C	SER			8.108	89.173	1.00 36.60
ATOM	3641	Э	SER		28.177			1.00 33.03
MOTA	3642	21	VAL		28.528	8.518	91.355	
ATOM	3643	CA	VAL	B 78	28.753	7.124	91.685	1.00 33.41
ATOM	3644	CB	VAL	в 78	29.742	6.979	92.848	1.00 36.91
ATOM	3645	031			29.955	5.499	93.163	1.00 34.37
	3646	CG2				7.658	92.496	1.00 34.19
ATOM			VAL			6.431	92.082	1.00 34.93
ATOM	3647	C				6.703	93.143	1.00 28.25
ATOM	3648	9	VAL			5.521	91.228	1.00 36.73
ATOM	3649	21	PRO				89.930	1.00 37.44
ATOM	3650	$\mathbb{C}\mathbb{D}$	PRO		27.532	5.114		1.00 37.44
ATOM	3651	CA	PRO			4.779	91.493	
ATOM	3652	CB	PRO			3.826		1.00 38.68
ATCM	3653	CG	PRO		26.293	4.664	89.201	1.00 37.41
ALON	200							

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> mov	3654	С	PRO B	79		25.788	4.046		1.00 36.92
ATOM		0	PRO B	79		26.854	3.648		1.00 33.03
MOTA	3655 3656		LYS B	80		24.623	3.881	93.448	1.00 38.43
MOTA		N	LYS B	80		24.482	3.206	94.736	1.00 39.73
	3657	CA	LYS B	80		23.003	2.871	94.967	1.00 43.33
ATOM	3658	CB		80		22.679	2:129	96.262	1.00 44.60
ATOM	3659	CG	LYS B	80		21.198	1.742	96.287	1.00 48.09
ATOM	3660	CD	LYS B	80		20.805	1.014	97.559	1.00 50.12
MOTA	3661	CE	LYS B			20.932	1.890	98.760	1.00 53.16
MOTA	3662	NZ	LYS B	80		25.315	1.928	94.854	1.00 40.35
MOTA	3663	С	LYS B	80		25.181	1.011	94.047	1.00 36.67
MOTA	3664	0	LYS B	80	•	26.173	1.880	95.869	1.00 38.26
MOTA	3665	Ŋ	GLY B	81		26.996	0.709	96.104	1.00 34.69
MOTA	3666	CA	GLY B	81		28.066	0.407	95.071	1.00 34.63
MOTA	3667	С	GLY B	81 81			-0.513	95.255	1.00 33.92
MOTA	3668	0	GLY B	82		28.100	1.178	93.992-	1.00 31.26
MOTA	3669	N	ALA B	82		29.082	0.963	92.936	1.00 34.88
MOTA	3670	CA	ALA B ALA B	82		28.755	1.848	91.751	1.00 23.13
MOTA	3671	CB		82		30.517	1.223	93.405	1.00 36.85
MOTA	3672	C	ALA B	82		31.461	0.580	92.945	1.00 32.17
MOTA	3673	0	ALA B	83		30.677	2.168	94.323	1.00 36.52
ATOM	3674	N	ARG B	83		31.994	2.522	94.830	1.00 38.75
MOTA	3675	CA	ARG B	83	•	31.865	3.616	95.885	1.00 40.24
MOTA	3676	CB	ARG B	83		33.187	4.180	96.330	1.00 49.12
MOTA	3677	CG	ARG B	83		33.015	5.239	97.404	1.00 53.26
MOTA	3678	CD	ARG B	83		34.240	6.010	97.624	1.00 59.30
MOTA	3679	NE		83		35.437	5.486	97.883	1.00 61.56
MOTA	3680	CZ	ARG B L ARG B	83		35.598	4.170	97.958	1.00 63.53
MOTA	3681	NH	ARG B	83		36.479	6.285	98.073	1.00 62.02
ATOM	3682		ARG B	83		32.719	1.326	95.426	1.00 37.75
MOTA	3683	С	ARG B	83		33.893	1.094	95.146	1.00 37.18
MOTA	3684	0	GLU B	84		32.011	0.564	96.249	1.00 35.29
MOTA	3685	N CA	GLU B	84		32.581	-0.609	96.898	1.00 35.29
MOTA	3686 3687	CB	GLU B	84		31.876	-0.855	98.236	1.00 40.14
MOTA	3688	CG	GLU B			30.443	-0.383	98.240	1.00 46.30
ATOM	3689	CD	GLU B			30.356	1.132	98.293	1.00 48.30
MOTA	3690		1 GLU B			29.339	1.690	97.834	1.00 43.07
MOTA	3691	OE				31.306	1.762	98.814	1.00 50.07
ATOM ATOM	3692	c	GLU B			32.527	-1.880	96.055	1.00 32.90
ATOM	3693	ō	GLU B			33.371	-2.765	96.193	1.00 28.68
ATOM	3694	N	LYS E	85		31.533	-1.984	95.187	1.00 27.12 1.00 30.46
ATOM	3695	CA				31.412	-3.177	94.361	
ATOM	3696					29.950	-3.401	93.967	1.00 30.01 1.00 28.40
ATOM	3697			85		29.717	-4.643	93.117	1.00 28.40
MOTA	3698					28.234	-4.807	92.775	1.00 32.87
MC A	3699	CE		85		28.000	-6.048	91.928	1.00 35.34
A.OM	3700			85		26.582	-6.186		
MOLA	3701		LYS I			32.267	÷3.096		4 4
ATOM	3702		LYS I	85		32.817	-4.098		
ATOM	3703	N	TYR I			32.391	-1.896		
ATOM	3704	CA				33.141	-1.692	90.288	
ATOM	3705	CE				32.206	-1.050		
MOTA	3706					31.008	-1.927		
ATOM	3707	CE				31.178	-3.137 -3.955		
MOTA						30.095			
ATOM						29.713	-1.553 -2.370		
ATOM	3710					28.611	-3.569		
ATOM	3713					28.815	-4.379		
ATOM	3712					27.747	-0.870		
MOTA	371		TYR			34.422	-0.645		
ATOM	371		TYR			35.160 34.674	-0.64		
ATOM	371		ASN			34.674 35.881	0.34		1.00 29.30
MOTA	371					37.105	-0.56		1.00 28.92
ATOM	371					38.343	0.01		1.00 34.72
ATOM	371					38.309	0.45		
ATOM		9 0	D1 ASN	اه ط		,0.00	J. 30	_	

MOTA	3720	ND2	ASN B	87	39.449	0.012	92.775	1.00 35.86
	3721	С	ASN B	87	36.070	1.622	92.223	1.00 29.72
ATOM								
MOTA	3722	0	ASN B	87	37.194	1.998	91.876	1.00 24.01
ATOM	3723	N	ILE B	88	34.956	2.282	91.932	1.00 29.43
								1.00 30.64
ATOM	3724	CA	ILE B	88	34.945	3.536	91.196	
ATCM-	3725	CB	ILE B	88	33.959	3.464	90.027	1.00 37.12
ATOM	3726	CG2	ILE B	88	33.821	4.829	89.379	1.00 40.62
ATOM	3727	CG1	ILE B	88	34.421	2.433	89.008	1.00 35.43
ATOM	3728	CD1	ILE B	88	35.684	2.821	88.324	1.00 41.80
_								
ATOM	3729	С	-ILE B	88	34.483	4.669	92.118	1.00 31.90
ATOM	3730	0	ILE B	88	33.681	4.445	93.024	1.00 28.86
ATOM	3731	N	GLY B.	89	34.977	5.881	91.875	1.00 30.36
							_	
ATOM	3732	CA	GLY B	89	34.574	7.022	92.686	1.00 29.54
ATOM	3733	С	GLY B	89	35.601	7.524	93.685	1.00 31.49
	3734	Ó	GLY B	89	35.497	8.652	94.177	1.00 37.26
ATOM								
MOTA	3735	N	GLY B	90	36.583	6.687	94.005	1.00 30.97
ATOM	3736	CA	GLY B	90	37.612	7.086	94.949	1.00 31.03
	3737	C	GLY B	90	38.655	7.936	94.247	1.00 34.78
ATOM								
ATOM	3738	0	GLY B	90	38.455	8.344	93.103	1.00 32.73
ATOM	3739	N	TYR B	91	39.772	8.201	94.915	1.00 29.39
	3740		TYR B	91	40.820	9.023	94.322	1.00 28.15
MOTA		CA						
ATOM	3741	CB	TYR B	91	41.810	9.463	95.405	1.00 27.29
MOTA	3742	CG	TYR B	91	42.609	8.330	96.007	1.00 26.60
ATOM	3743	CD1		91	43.738	7.823	95.359	1.00 28.55
ATOM	3744	CE1	TYR B	91	44.456	6.762	95.896	1.00 28.75
ATOM	3745	CD2	TYR B	91	42.219	7.741	97.208	1.00 28.35
MOTA	3746	CE2	TYR B	91	42.927	6.680	97.751	1.00 27.58
MOTA	3747	CZ	TYR B	91	44.043	6.196	97.094	1.00 30.12
ATOM	3748	OH	TYR B	91	44.753	5.154	97.637	1.00 36.59
MOTA	3749	С	TYR B	91	41.563	8.271	93.226	1.00 29.27
ATOM	3 7 50	0	TYR B	91	42.109	8.874	92.308	1.00 25.22
ATCM	3751	N	GLU B	92	41.568	6.948	93.318	1.00 28.32
				92	42.286			1.00 27.06
MOTA	3752	CA	GLU B			•		
MOTA	3753	CB	GLU B	92	42.474	4.726	92.924	1.00 23.35
ATOM	3754	CG	GLU B	92	43.502	3.884	92.221	1.00 29.80
							92.826	1.00 35.34
MOTA	3755	CD	GLU B	92	43.585	2.500		
ATOM	.3756	OE1	GLU B	92	42.742	1.645	92.477	1.00 32.15
MOTA	3757	OE2	GLU B	92	44.475	2.278	93.678	1.00 31.61
	3758		GLU B	92	41.594	6.024	90.997	1.00 23.42
ATOM		С						
ATOM	3759	0	GLU B	92	42.204	6.260	89.962	1.00 20.47
ATOM	3760	N	ASN B	93	40.314	5.677	91.017	1.00 18.85
	3761		ASN B	93	39.534	5.509	89.795	1.00 21.96
ATOM		CA						
ATOM	3762	CB	ASN B	93	39.165	4.033	89.664	1.00 23.90
ATCM	3763	CG	ASN B	93	40.351	3.120	89.943	1.00 24.78
			ASN B	93	41.362	3.160	89.239	1.00 22.35
ATOM	3764							
ATOM	3765	ND2	ASN B	93	40.240	2.311	90.987	1.00 13.35
ATOM	3766	С	ASN B	93	38.285	6.362	89.944	1.00 25.16
	3767	0	ASN B	93	37.183	5.843	90.121	1.00 20.91
ATCM								
ATCM	3768	N	PRO B	94	38.449	7.693	89.887	1.00 26.37
ATOM	3769	CD	PRO B	94	39.738	8.389	89.716	1.00 19.35
ATOM	3770	CA	PRO B	94	37.373	8.676	90.024	1.00 24.59
								1.00 25.95
ATOM	3771	CB	PRO B	94	38.147	9.972	90.200	
MOTA	3 77 2	CG	PRO B	94	39.297	9.740	89.223	1.00 22.60
	3773	С	PRO B	94	36.384	8.777	88.873	1.00 28.74
ATOM								
ATOM	3774	0	PRO B	94	36.562	8.176	87.808	1.00 25.77
ATOM	3775	N	VAL B	95	35.332	9.553	89.112	1.00 27.14
	3776	CA	VAL B	95	34.317	9.812	88.103	1.00 25.94
ATOM								
atom	3 777	CB	VAL B	95	33.035	10.393	88.742	1.00 23.75
ATOM	3778	CG1	VAL B	95	32.067	10.855	87.662	1.00 26.34
	3779		VAL B	95	32.378	9.346	89.622	1.00 27.59
ATOM								
ATOM	3780	C	VAL B	95	34.912	10.861	87.175	1.00 25.69
ATOM	3781	0	VAL B	95	35.564	11.793	87.641	1.00 25.25
	3782	N	SER B	96	34.708	10.699	85.871	1.00 28.02
ATCM								1.00 24.82
atom	3783	CA	SER B	96	35.199	11.647	84.868	
ATOM	3784	CB	SER B	96	36.729	11.705	84.850	1.00 25.90
	3785	OG	SER B	96	37.274	10.548	84.229	1.00 23.99
ATOM	5,00	-	J J					_

						0.5	11 177	83.519	1.00 26.22
ATOM	3786		SER B	96		34.726			1.00 23.57
ATOM	3787		SER B	96		33.943			1.00 22.83
ATOM	3788	N	TYR B	97		35.195	11.744		1.00 28.59
MOTA	3789	CA	TYR B	97		34.818	11.279	UI	1.00 31.45
ATOM	3790	CB	TYR B	97		34.536	12.452	•	1.00 31.43
ATOM	3791	CG	TYR B	97		33.279	13.203		
ATOM	3792		TYR B	97		33.316	14.239		1.00 32.87
ATOM	3793		TYR B	97		32.148	14.863		1.00 37.73
ATOM	3794		TYR B	97		32.036	12.812	• • • • •	1.00 34.85
MOTA	3795	CE2	TYR B	97		30.858	13.430	80.475	1.00 38.61
MOTA	3796	CZ	TYR B	97		30.924	14.453	81.408	1.00 39.45
	3797	ОН	TYR B	97		29.768	15.047	81.852	1.00 35.36
MOTA	3798	C	TYR B	97		35.883	10.354	80.534	1.00 28.93
ATOM	3799	Ö	TYR B	97		35.859	9.992	79.358	1.00 28.26
MOTA	3800	И	ALA B	98		36.822	.9.968	81.385	1.00 29.09
ATOM	3801	CA	ALA B	98		37.866	9.044	80.980	1.00 26.88
ATOM	3802	CB	ALA B	98		39.167	9.369	81.692	1.00 27.99
MOTA	3803	C	ALA B	98		37.395	7.657	81.382	1.00 22.53
MOTA	3804	Ö	ALA B	98		37.721	6.675	80.722	1.00 21.98
MOTA	3805	Ŋ	MET B	99		36.603	7.595	82.453	1.00 23.51
MOTA	3806	CA	MET B	99		36.106	6.326	82.986	1.00 26.36
ATOM		CB	MET B	99		35.179	6.568	84.185	1.00 24.05
ATOM	3807		MET B	99		33.822	7.188	83.875	1.00 28.37
MOTA	3808	CG	MET B	99		32.966	7.704	85.406	1.00 27.91
MOTA	3809	SD	MET B	99		33.106	6.227	86.409	1.00 22.12
MOTA	3810	CE	MET B			35.430	5.435	81.953	1.00 25.76
MOTA	3811	C	MET B			35.544	4.212	82.031	1.00 26.11
ATOM	3812	0	PHE B			34.724	6.027	80.992	1.00 22.17
MOTA	3813	N CA	PHE B			34.107	5.222	79.940	1.00 22.35
MOTA	3814	CB	PHE B	100		32.582	5.133	80.088	1.00 22.01
ATOM	3815 3816	CG	PHE B	100		31.947	4.254	79.038	1.00 24.22
ATOM	3817		PHE B			32.143	2.872	79.061	1.00 26.61
ATOM	3818	CD2		100		31.280	4.813	77.953	1.00 21.22
ATOM ATOM	3819	CEI				31.691	2.059	78.012	1.00 26.91
ATOM	3820	CE2				30.825	4.010	76.894	1.00 24.80
ATOM	3821	CZ	PHE E		4.4	31.033	2.632	76.924	1.00 24.85
ATOM	3822	c	PHE E			34.425	5.695	78.514	1.00 24.86
ATOM	3823	0	PHE E	100		34.922	4.920	77.694	1.00 21.40
ATOM	3824	N	THR E	101		34.131	6.957	78.204	1.00 24.24 1.00 24.54
ATOM	3825	CA	THR E			34.390	7.469	76.854	1.00 24.46
ATOM	3326	CB	THR E	101		33.914	8.926	76.708 76.953	1.00 27.64
MOTA	3827	OG1	THR E	3 101		32.504	8.985	75.297	1.00 22.19
MOTA	3828	CG2	THR E	3 101		34.191	9.445	76.483	1.00 25.26
MOTA	3829	С	THR F	3 101		35.872	7.387 6.856	75.430	1.00 25.47
MOTA	3830	0	THR I	3 101		36.231		77.350	1.00 23.74
ATOM	3831	N	GLY I	3 102		36.725 38.153		77.096	1.00 24.53
MOTA	3832	CA	GLY I	3 102		38.657		77.046	1.00 24.06
ATOM	3833	С	GLY I	3 102		39.346		76.100	1.00 22.53
ATOM	3834	0	GLY	3 102		38.316		78.067	1.00 22.02
ATOM	3835	N	SER	3 103		38.730		78.146	1.00 20.45
MOTA	3836	CA	SER	3 103		38.193		79.427	1.00 25.21
MOTA	3637	CB	SER	3 103		38.820		80.567	1.00 26.48
ATOM	3838	OG	SER	B 103		38.268			1.00 20.53
MOTA	3839	C		B 103		39.034			1.00 16.82
MOTA	3840	0	SER	B 103		37.014			1.00 17.11
ATOM	3841	N	SER	B 104 B 104		36.462			1.00 23.32
MOTA	3942	CA	SER	0 104		34.980			1.00 22.93
ATOM	3543		つ た れ	B 104 B 104		34.424		_	1.00 24.75
MOTA	3844		SEK	B 104		37.221			1.00 21.97
MOTA	3845	_	うたパ つだり	B 104		37.451			1.00 22.83
atcm	3846			B 105		37.619			1.00 23.00
MOTA	3847			B 105		38.354			1.00 25.12
ATOM	3848			B 105		38.443			1.00 29.25
ATOM	3849 3850		LEU	B 105		38.702	2 7.289		
MOTA,	3851		1 LEU	B 105		37.662	2 6.888	3 70.512	1.00 31.51
atom	2001								





•		001 0111 0	115	3	9.980	-2.374	63.072	1.00 40.63
ATOM	3918	OE1 GLU S	113			-3.940	63.758	1.00 39.86
MOTA	3919	OE2 GLU B			8.607			
ATOM	3920	C GLU E	3 115	4	4.334	-4.906	61.974	1.00 31.52
ATOM	3921	O GLU E	3 115	4	4.444	-5.603	60.964	1.00 26.43
		N GLU E		4	5.141	-3.879	62.234	1.00 26.04
MOTA	3922				6.226	-3.522	61.324	1.00 26.21
ATOM	3923	CA GLU E				-2.227	61.775	1.00 23.21
ATOM	3924	CB GLU B			6.909			1.00 23.82
MOTA	3925	CG GLU E	3 115		6.055	-0.983	61.601	
ATOM	3926	CD GLU E	3.116	4	5.576	-0.817	60.163	1.00 31.43
	3927	OE1 GLU E		4	6.425	-0.734	59.253	1.00 26.45
ATOM		OE2 GLU	116		4.349	-0.771	59.945	1.00 24.59
MOTA	3928		110		7.256	-4.644	61.243	1.00 28.60
MOTA	3929	C GLU I			7.857	-4.884	60.189	1.00 25.01
ATOM	3930	O GLU I		-			62.363	1.00 26.22
MOTA	3931		3 117		7.470	-5.324		
ATOM	3932	CA PHE	в 117		8.421	-6.425	62.400	1.00 28.05
ATOM	3933	CB PHE I	в 117	4	18.516	-7.007	63.805	1.00 32.15
	3934		в 117	4	19.278	-8.299	63.869	1.00 33.88
ATOM	3935	CD1 PHE		-	0.656	-8.321	63.713	1.00 33.52
MOTA		CD2 PHE	D 117		18.604	-9.502	64.054	1.00 32.83
ATOM	3936	CD2 PHE	D 117		1.356	-9.521	63.740	1.00 31.67
MOTA	3937	CE1 PHE	B 117			-10.710	64.082	1.00 35.69
ATOM	3938		B 117					1.00 36.72
ATOM	3939		B 117			-10.717	63.926	
ATOM	3940	C PHE	B 117		47.929	-7.508	61.456	1.00 26.43
ATOM	3941	O PHE			48.689	-8.061	60.669	1.00 27.61
	3942	N LEU			46.642	-7.809	61.551	1.00 23.59
ATOM		CA LEU	B 118		46.048	-8.820	60.705	1.00 29.15
ATOM	3943	CA LEU	D 110		44.585	-9.039	61.099	1.00 28.78
MOTA	3944		B 118		44.375	-9.478	62.557	1.00 35.24
ATOM	3945		B 118					1.00 31.92
MOTA	3946	CD1 LEU	B 118		42.898	-9.763	62.788	1.00 33.40
MOTA	3947	CD2 LEU	B 118			-10.723	62.856	
MOTA	3948	C LEU	B 118		46.153	-8.422	59.236	1.00 30.15
ATOM	3949		B 118		46.350	-9.276	58.379	1.00 27.04
	3950		B 119		46.035	-7.128	58.947	1.00 27.96
ATOM			B 119		46.127	-6.663	57.569	1.00 26.69
ATOM	3951	CA LIS	B 119		45.470	-5.291	57.412	1.00 23.94
MOTA	3952				43.998	-5.260	57.795	1.00 24.41
ATOM	3953		B 119			-3.970	57.350	1.00 27.53
MOTA	3954	CD LYS	B 119		43.327		57.886	1.00 33.13
ATOM	3955		B 119		44.024	-2.739		1.00 27.75
ATOM	3956		B 119		43.371	-1.479	57.428	1.00 27.73
MOTA	3957	C LYS	B 119		47.577	-6.598	57.101	1.00 29.12
ATOM	3958	O LYS			47.864	-6.160	55.984	1.00 35.25
	3959		B 120		48.493	-7.034	57.958	1.00 30.25
ATOM	3960	Ch GLY	B 120		49.896	-7.037	57.585	1.00 28.38
ATOM			B 120		50.642		57.861	1.00 27.91
ATOM	3961	C GLY	D 120		51.775		57.403	1.00 22.25
MOTA	3962	O GLY	B 120					
MOTA	3963	n asn	B :21		50.024		58.919	1.00 29.49
ATOM	3964	CA ASN	B .21		50.695			1.00 30.07
ATOM	3965		B 131		49.758		58.727	1.00 32.25
ATOM	3966	CG ASN	B 121		49.201		57.325	
MOTA	3967	OD1 ASN	B 121		49.924	-2.491	56.350	1.00 35.44
	3968	ND2 ASN	B 121		47.917	-2.006	57.21 7	. 1.00 32.26
ATOM		C 3CN	B 121		51.172		60.361	1.00 30.92
ATCM	3969	C ASN	D 121		50.971		61.059	1.00 27.08
MOTA	3970	O ASN	B 121		51.810	_		
ATOM	3971		B 122					1.00 29.48
ATOM	3972	CA VAL	B 122	٠	52.309			10
ATOM	3973	CB VAL	B 122		53.840			
MOTA	3974	CG1 VAL	B 122		54.334			
	3975	CG2 VAL	-B 122		54.446			
ATOM		C VAL	B 122		51.713		62.748	1.00 29.04
ATCM	3976	C VAL	B 122		51.800			1.00 27.47
ATOM	3977		D :33		51.100			
ATOM	3978		B 123		50.477			
ATOM	3979		B 123					
ATCM	3980		в 123		48.963			
ATOM	3981	C ALA	B 123		50.873			
ATOM	3982		В 123		51.227			
	3983		B 124		50.80	5 1.239	66.472	1.00 22.85
MOTA	دەور							

ATOM	3984	CA	PHE B	124	51.122	1.577	67.847	1.00	17:31
ATOM	3985	CB	PHE B		52.419	2.404	67.876	1.00	16.88
ATOM	3986	CG	PHE B		52.762	3.000	69.225	1.00	18.52
MCTA	3987		PHE B		52.533	2.304	70.403	1.00	17.52
	3988			124	53.382	4.245	69.297	1.00	17.88
ATOM	3989	CEI	PHE B		52.914	2.837	71.638	1.00	25.77
ATOM-	3990		PHE B		53.769	4.790	70.517	1.00	
ATOM		CZ	PHE B		53.535	4.084	71.698	1.00	
MOTA	3991	C	PHE B		49.937	2.348	68.421		18.77
ATOM	3992		PHE B		49.462	3.311	67.820		16.62
ATOM	3993		ASN B	125	49.418	1.868	69.546	1.00	
ATOM	3994	N		125	48.320	2.528	70.238		16.22
MOTA	3995	CA			47.129	1.603	70.435		12.71
ATOM	3996	CB		125	46.095	2.209	71.346	1.00	
ATOM	3997	CG	ASN B	125	45.930	3.430	71.372	1.00	
ATOM	3998				45.376	1.371	72.087		12.31
MOTA	3999		ASN B		48.790	3.004	71.600		19.19
MOTA	4000	С		125	48.687	2.280	72.585		20.99
MOTA	4001	0		125	49.335	4.226	71.668		19.02
MOTA	4002	N		126	49.595	5.156	70.555		21.39
ATOM	4003	CD	PRO B		49.833	4.805	72.917		21.60
MOTA	4004	CA		126	50.398	6.161	72.459		21.07
MOTA	4005	CB		126		6.487	71.269		17.70
MOTA	4006	CG		126	49.530	4.942	74.034		20.69
ATOM	4007	С		126	48.808	5.053	75.198		19.79
ATOM	4008	0	PRO B	126	49.178 47.525	4.937	73.198		16.67
MOTA	4009	N	ALA B	127	46.476	5.065	74.698		20.44
ATOM	4010	CA		127		5.609	74.066		19.56
MOTA	4011	CB	ALA B		45.198	3.747	75.401		20.80
ATOM	4012	С	ALA B		46.169 45.555	3.742	76.472		19.47
MOTA	4013	0	ALA B		46.587	2.634	74.800		20.52
MOTA	4014	N	GLY B		46.325	1.333	75.399		19.43
MOTA	4015	CA	GLY B		47.327	0.910	76.463	1.00	
MOTA	4016	C	GLY B		48.182	1.697	76.869	1.00	
MOTA	4017	0	GLY B		47.215	-0.333	76.929		19.68
ATOM	4018	N	GLY B	129	48.136	-0.820	77.943	1.00	
MOTA	4019	CA	GLY B	129	47.620	-0.619	79.358		25.25
ATOM	4020	C	GLY B		48.383	-0.686	80.329	1.00	
ATOM	4021	0	GLY B		46.317	-0.374	79.474		16.04
ATOM	4022	N	MET B		45.677	-0.161	80.768		19.26
ATOM	4023	CA	MET B		44.301	0.451	80.519		17.94
ATOM	4024	CB	MET B		44.413	1.728	79.653	1.00	22.95
ATOM	4025	CG	MET B		42.873	2.615	79.307		31.83
ATOM	4026	SD	MET B		41.957	1.358	78.382		20.22
ATOM	4027	CE.	MET B		45.598	-1.548	81.421		22.63
ATOM	4028	C			44.546	-2.173	81.486		16.24
ATOM	4029	0	MET B HIS B	131	46.737	-1.999	81.932		18.42
ATOM	4030	N	HIS B	131	46.853	-3.343	82.472		17.07
ATOM	4031	CA	HIS B		48.323	-3.804	82.341		17.61
ATOM	4032	CB	HIS B		49.316	-2.979	83.106		14.01
ATOM	4033	CG	HIS B	131	49.138	-1.904	83.915		13.47
ATOM	4034	VD2	HIS B	131	50.680	-3.190	83.051		18.00
ATOM	4035	NDI	HIS B	131	51.297	-2.281	83.789		15.27
ATOM	4036			131	50.384	-1.489	84.324		17.21
ATOM	4037	NE2	HIS B		46.329	-3.724	83.852		16.41
ATOM	4038	C			46.452	-4.883	84.236		19.37
ATOM	4039	0	HIS B		45.721	-2.794	84.586		18.64
ATOM	4040	N			45.241	-3.112	85.936		20.87
ATOM	4041	CY	HIS B		45.513	-1.935	86.885		18.85
ATOM	4042	CB	HIS B	122	46.966	-1.686	87.152	1.00	20.00
ATOM	1043	CG	HIS B		47.715	-0.563	87.030	1 00	15.74
ATOM	1044	CDZ	HIS B	132	47.713	-2.655	87.659		14.72
ATOM	4045	NDI	HIS B	122	49.014	-2.139	87.837	1 00	14.64
ATOM	4046	CE	HIS B	132		-0.872	87.462		14.88
ATOM	4047		HIS B	132	48.984 43.778	-3.547	86.136	1 00	22.83
ATOM	4048	C	HIS B	132	43.778	-4.298			17.84
ATOM	4049	0	HIS B	132	43.410	-4.270	0,.0,0	1.00	

				_		2 222	05 271	1.00 16.54
ATOM	4050	N	ALA B 13	33	42.878	-3.088	85.271	
ATOM	4051	CA	ALA B 13	3.3	41.457	-5.396	85.424	1.00 19.13
					40.654	-2.704	84.328	1.00 23.56
MOTA	4052	CB	ALA B 13				85.439	1.00 23.12
ATOM	4053	С	ALA B 13	33	41.127	-4.883		
ATOM	4054	0	ALA B 13	33	41.718	-5.677	84.696	1.00 18.03
			PHE B 1		40.181	-5.257	86.294	1.00 19.69
ATOM	4055	N						1.00 19.35
MOTA	4056	CA	PHE B 13	34	39.762	-6.649	86.365	
	4057	CB	PHE B 1	3.4	39.583	-7.122	87.818	1.00 21.26
ATOM					40.837	-7.053	88.646	1.00 23.41
MOTA	4058	CG	PHE B 1					1.00 24.25
MOTA	4059	CD1	PHE B 1	34	41.041	-6.009	89.544	
	4060		PHE B 1		41.820	-8.027	88.522	1.00 22.80
ATOM					42.207	-5.935	90.311	1.00 23.36
MOTA	4061		PHE B 1				-	1.00 27.74
MOTA	4062	CE2	PHE B 1	34	42.997	-7.964	89.283	
	4063	CZ	PHE B 1	3.4	43.190	-6.917	90.178	1.00 24.05
MOTA			PHE B 1		38.444	-6.816	85.621	1.00 18.60
MOTA	4064	С						1.00 13.82
MOTA	4065	0	PHE B 1		37.815	-5.849	85.196	
ATOM	4066	N	LYS B 1	35	38.050	-8.064	85.454	1.00 19.78
				35	36.813	-8.421	84.782	1.00 28.09
ATOM	4067	CA				-9.879	85.125	1.00 34.06
MOTA	4068	CB		35 .	36.501			
ATOM	4069	CG	LYS B 1	35	35.077	-10.310	84.953	1.00 42.76
			LYS B 1		34 927	-11.745	85.437	1.00 48.44
MOTA	4070	CD					85.531	1.00 55.66
ATOM	4071	CE	LYS B 1	35		-12.152		
ATOM	4072	NZ	LYS B 1	35	32.727	-11.332	86.544	1.00 51.65
	4073	C	LYS B 1	35	35.639	-7.512	85.172	1.00 28.27
ATOM					34.927	-6.999	84.309	1.00 24.86
MOTA	4074	0	LYS B 1					
ATOM	4075	N	SER B 1	36	35.450	-7.292	86.470	1.00 29.89
	4076	CA	SER B 1		34.331	-6.477	86.933	1.00 30.86
MOTA			SER D I	36	33.282	-7.388	87.582	1.00 31.57
ATOM	4077	CB	SER B 1					1.00 45.10
ATOM	4078	OG	SER B 1		32.916	-8.434	86.698	
MOTA	4079	С	SER B 1	36	34.705	-5.380	87.923	1.00 31.50
			SER B 1	3.6	33.887	-4.997	88.765	1.00 24.54
MOTA	4080	0	SER D I	.50		-4.854	87.835	1.00 22.63
ATOM	4081	N	ARG B 1	.37	35.920			
ATOM	4082	CA	ARG B 1	.37	36.291	-3.826	88.794	1.00 25.51
	4083	CB	ARG B 1		36.629	-4:486	90.136	1.00 29.62
MOTA					36.391	-3.578	91.318	1.00 36.21
ATOM	4084	CG	ARG B 1					1.00 40.79
MOTA	4085	CD	ARG B 1	.37	36.874	-4.160	92.631	
ATOM	4086	NE	ARG B 1	37	36.365	-3.357	93.744	1.00 45.95
			ARG B 1		36.863	-3.369	94.973	1.00 41.97
ATOM	4087	CZ					95.263	1.00 43.42
ATOM	4088	NHI			37.897	-4.144		
ATOM	4089	NH2	ARG B 1	.37	36.322	-2.604	95.913	1.00 46.65
			ARG B 1		37.461	-2.956	88.339	1.00 24.73
MOTA	4090	C				-3.441	87.734	1.00 19.32
MOTA	4091	0	ARG B 1		38.420			1.00 16.77
ATOM	4092	N	ALA B 1	L38	37.372	-1.663	88.631	1.00 10.77
	4093	CA	ALA E 1	138	38.428	-0.733	88.270	1.00 18.50
MOTA			ALA B		37.939	0.694	88.401	1.00 17.24
MOTA	4094	CB					89.216	1.00 22.62
ATOM	4095	С	ALA B	138	39.597			
MOTA	4096	0	ALA B	138	39 411	-1.419	90.346	1.00 18.98
		N	ASN B	139	40.301	-0.641	88.759	1.00 20.82
ATOM	4097		NOW D	120	41.989		89.585	1.00 25.17
MOTA	4098	CA	ASN B	133				1.00 20.59
ATOM .	4099	CB	ASN B		42.311		89.689	
	4100	CG	ASN B	139	43.556	-2.608	90.511	1.00 27.70
MOTA		- C-0	1 ASN B	130	43.726		91.592	1.00 22.43
ATOM	4101	UD.	T WON D	139			90.010	1.00 24.43
ATOM	4102	ND.	2 ASN B	139	44.420			
ATOM	4103	C	ASN B	139	43.176		89.020	1.00 22.37
			ASN B		43.338	0.038	87.799	1.00 17.50
MOTA	4104	0			43.984		89.920	1.00 21.67
MOTA	4105	N	GLY B					1.00 23.06
ATOM	4106	CA	GLY B	140	45.166		89.524	1.00 23.00
	4107	C	GLY B		45.005	2.268	88.402	1.00 26.29
ATOM			GLY B		45.827		87.479	1.00 22.47
ATOM	4108						88.473	1.00 22.33
MOTA	4109	N	PHE B	141	43.958			1 00 10 01
	4110			141	43.694	4.126	87.461	1.00 19.01
MOTA			_	141	44.996	4.806	86.997	1.00 22.90
MOTA	4111		PRE D	1 / 1			88.097	1.00 23.17
MOTA	4112	CG	PHE B	141	45.810			
ATOM	4113	CD	1 PHE B	141	47.114			1.00 22.40
	4114			141	45.281	5.635	89.366	
ATOM			1 PHE B	141	47.876			1.00 24.02
MOTA	4115	,	T PRE B		4,		, ,	_

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ATOM 4116 CE2 PHE B 141								00 261	1.00 23.03
ATOM 4118 C PHE B 141	ATOM	4116	CE2	PHE B	141	-			
ATOM 4118 C PHE B 141 42.996 3.538 86.214 1.00 23.69 ATOM 4120 N CYS B 142 42.962 2.211 86.122 1.00 15.03 ATOM 4121 CA CYS B 142 42.986 1.578 84.938 1.00 19.55 ATOM 4123 CA CYS B 142 40.923 1.171 85.098 1.00 27.78 ATOM 4125 C CYS B 142 40.923 1.171 85.098 1.00 27.77 ATOM 4125 O CYS B 142 40.923 1.171 85.098 1.00 22.77 ATOM 4127 CA TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4127 CA TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4120 CET TYR B 143 39.038 4.516 84.214 1.00 23.40 ATOM 4131 CET TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CET TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CET TYR B 143 39.265 5.658 84.991 1.00 27.42 ATOM 4131 CET TYR B 143 39.265 5.658 84.991 1.00 23.20 ATOM 4132 CDZ TYR B 143 37.226 5.658 84.991 1.00 23.20 ATOM 4131 CET TYR B 143 39.265 5.658 84.991 1.00 23.20 ATOM 4133 CCZ TYR B 143 37.226 5.658 84.991 1.00 23.20 ATOM 4136 CC TYR B 143 38.655 7.015 86.897 1.00 23.94 ATOM 4136 CC TYR B 143 38.655 7.015 86.897 1.00 23.94 ATOM 4136 CC TYR B 143 38.655 7.015 86.897 1.00 23.94 ATOM 4136 C TYR B 143 38.655 7.015 86.897 1.00 23.94 ATOM 4136 C TYR B 143 38.655 7.015 86.897 1.00 23.94 ATOM 4136 C TYR B 143 38.655 7.015 86.897 1.00 22.95 ATOM 4140 CB LLE B 144 38.898 -1.055 81.082 1.00 19.95 87 ATOM 4140 CB LLE B 144 38.898 -1.056 80.099 1.00 23.94 ATOM 4140 CB LLE B 144 38.898 -1.057 89.787 1.00 22.50 ATOM 4140 CB LLE B 144 38.938 -1.057 89.787 1.00 22.50 ATOM 4140 CB LLE B 144 38.938 -1.058 80.099 1.00 23.94 ATOM 4140 CB LLE B 144 38.938 -1.057 89.787 1.00 22.50 ATOM 4140 CB LLE B 144 38.938 -1.058 89.898 1.00 25.37 ATOM 4150 CD ATOM 4151 ND2 ASN B 145 41.789 -1.00 2.00 2.00 ATOM 4151 ND2 ASN B 145 41.789 -1.00 2.00 2.00 ATOM 4151 ND2 ASN B 145 41.789 -1.00 2.00 2.00 ATOM 4151 ND2 ASN B 145 41.789 -1.00 2.00 2.00 ATOM 4151 ND2 ASN B 146 42.297 -0.588 79.787 1.00 20.25 ATOM 4150 CD ASN B 146 42.297 -0.589 77.899 1.00 20.25 ATOM 4150 ND1 ASN B 146 42.297 -0.789 77.7899 1.0	MOT	4117	CZ	PHE B	141		6.658	90.092	
ATOM 4119 O PHE B 141 42.596 4.283 85.335 1.00 18.88 ATOM 4120 N CYS B 142 42.962 2.211 86.122 1.00 15.03 ATOM 4121 CA CYS B 142 42.962 2.211 86.122 1.00 15.03 ATOM 4123 CS CYS B 142 44.933 0.336 84.552 1.00 20.38 ATOM 4123 CS CYS B 142 40.933 0.336 84.552 1.00 22.77 ATOM 4124 C CYS B 142 40.933 0.336 84.552 1.00 22.77 ATOM 4125 O CYS B 142 40.933 1.171 85.098 1.00 23.04 ATOM 4126 N TYR B 143 40.094 1.557 84.130 1.00 15.03 ATOM 4127 CA TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4128 CB TYR B 143 38.075 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.015 5.658 84.291 1.00 23.20 ATOM 4130 CD1 TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CEL TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4132 CD2 TYR B 143 37.441 5.023 86.432 1.00 19.15 ATOM 4132 CD2 TYR B 143 37.441 5.023 86.432 1.00 21.92 ATOM 4135 CD2 TYR B 143 37.441 5.023 86.432 1.00 21.92 ATOM 4135 CD2 TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4135 CD TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 CD TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 CD TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4137 CD TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4138 N ILE B 144 38.938 -1.055 81.002 1.99 1.002 ATOM 4138 N ILE B 144 38.938 -1.055 81.002 1.99 1.002 ATOM 4139 CA ILE B 144 38.938 -1.055 81.002 1.99 1.002 ATOM 4140 CB ILE B 144 38.938 -1.055 81.002 1.002 2.002 ATOM 4141 CC2 ILE B 144 38.938 -1.055 81.002 1.002 2.09 ATOM 4145 CD ILE B 144 38.938 -1.055 81.002 1.002 2.003 ATOM 4145 CD ILE B 144 38.938 -1.055 81.002 1.002 2.003 ATOM 4145 CD ILE B 144 36.901 0.033 80.113 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.113 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.113 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.113 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.133 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.133 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.133 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.133 1.000 22.78 ATOM 4145 CD ILE B 144 36.901 0.033 80.133 1.000 22.78 ATOM 4146 CD ILE B 144 40.200				PHE B	141	43.029	3.538	86.214	1.00 23.69
ATOM 4120 N CYS B 142 42.99C 2.211 86.122 1.00 15.03 ATOM 4121 CA CYS B 142 43.193 0.336 84.552 1.00 19.55 ATOM 4122 CB CYS B 142 43.193 0.3662 84.199 1.00 17.00									1.00 18.88
ATOM 4121 CA CYS B 142 42.380 1.578 84.938 1.00 19.55 ATOM 4122 CB CYS B 142 44.933 0.336 84.552 1.00 20.38 ATOM 4124 CC CYS B 142 40.561 0.514 86.082 1.00 23.04 ATOM 4126 N TYR B 143 40.094 1.557 84.130 1.00 15.24 ATOM 4127 CA TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4128 CB TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.075 2.372 83.723 1.00 18.06 ATOM 4120 CD TYR B 143 38.075 5.658 84.991 1.00 23.04 ATOM 4130 CD1 TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CD1 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4131 CZ TYR B 143 37.441 5.023 86.432 1.00 21.97 ATOM 4131 CZ TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4131 CZ TYR B 143 38.655 7.015 86.877 1.00 23.94 ATOM 4131 CZ TYR B 143 38.655 7.015 86.877 1.00 23.94 ATOM 4136 C TYR B 143 37.665 -0.902 83.535 1.00 23.94 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 23.94 ATOM 4138 N LLE B 144 38.838 -1.055 81.082 1.00 19.91 ATOM 4140 CB LLE B 144 38.838 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 LLE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 LLE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4143 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.205 ATOM 4144 C LLE B 144 36.901 0.053 80.133 1.00 20.205 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.205 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.205 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.005 2.35 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.005 2.35 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.005 2.35 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.005 2.35 ATOM 4145 CD1 ILE B 144 36.901 0.053 80.133 1.00 20.005 2.35 ATOM 4156 CD ASN B 145 41.778 -4.935 81.242 1.00 20.25 ATOM 4156 CD ASN B 145 41.789 -5.957 80.977 1.00 20.26 ATOM 4156 CD ASN B 145 41.789 -5.957 80.977 1.00 20.26 ATOM 4157 CD ASN B 146 42.267 -3.175 76.733 1.00 1.00 2.18 ATOM 4160 CD ASN B 146 42.267 -3.175 76.733 1.00 1.00 2.53 ATOM 4157 CD ASN B 146 42.267 -3.175 76.733 1.00 1.00 1.53 ATOM 4160 CD ASN B 146 42.267 -3.175									
ATOM 4122 CB CYS B 142	MOTA		N						
ATOM 4122 CB CYS B 142	MOTA	4121	CA	CYS B	142				
ATOM 4123 SG CYS B 142 44.933 0.662 84.190 1.00 37.40 ATOM 4124 C CYS B 142 40.931 1.171 85.098 1.00 22.77 ATOM 4125 0 CYS B 142 40.551 0.514 86.082 1.00 23.04 ATOM 4126 N TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4128 CB TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.675 1.194 84.155 1.00 24.34 ATOM 4129 CG TYR B 143 39.038 6.516 84.214 1.00 23.20 ATOM 4130 CD1 TYR B 143 39.038 6.516 84.214 1.00 23.20 ATOM 4131 CE1 TYR B 143 39.038 6.516 84.214 1.00 23.20 ATOM 4131 CE1 TYR B 143 39.038 6.516 84.214 1.00 23.20 ATOM 4131 CE1 TYR B 143 39.038 6.516 84.214 1.00 23.20 ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CZ TYR B 143 37.226 3.892 86.692 1.00 19.15 ATOM 4136 C TYR B 143 38.655 7.015 86.877 1.00 22.17 ATOM 4136 C TYR B 143 38.4515 7.00 86.897 1.00 22.91 ATOM 4136 C TYR B 143 38.4515 7.00 88.3218 1.00 19.91 ATOM 4137 O TYR B 143 38.4515 7.00 88.3218 1.00 19.91 ATOM 4137 O TYR B 143 38.4515 7.00 88.218 1.00 19.92 ATOM 4138 N LE B 144 39.038 0.026 82.061 1.00 19.20 ATOM 4140 CB LE B 144 38.938 -1.055 81.082 1.00 19.20 ATOM 4141 CG2 LE B 144 38.938 -1.055 81.082 1.00 19.50 ATOM 4141 CG2 LE B 144 38.938 -1.055 81.082 1.00 19.50 ATOM 4141 CG2 LLE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 CB LE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 CB LE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 CB ASN B 145 41.698 -3.623 80.451 1.00 15.37 ATOM 4146 CB ASN B 145 41.698 -3.623 80.451 1.00 12.318 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.26 ATOM 4158 ODI ASN B 145 41.698 -3.623 80.451 1.00 17.63 ATOM 4159 CO ASN B 145 41.698 -3.623 80.451 1.00 22.78 ATOM 4150 CDI ASN B 145 41.698 -3.623 80.451 1.00 17.63 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 17.63 ATOM 4155 CA ASN B 145 41.698 -3.623 80.451 1.00 17.63 ATOM 4156 CB ASN B 145 41.698 -3.623 80.451 1.00 17.63 ATOM 4156 CB ASN B 146 42.267 -3.175 76.532 1.00 22.77 ATOM 4156 CB ASN B 146 42.267 -3.715 76.532 1.00 12.18 ATOM 4156 CB ASN B 146 42.267 -3.715 76.532 1.00 12.18 ATOM 4156 CB ASN B 146 42.267 -		4122	CB	CYS B	142	43.193	0.336		
ATOM 4124 C CYS B 142 40.923 1.171 85.098 1.00 22.77 ATOM 4125 O CYS B 142 40.923 1.571 86.092 1.00 23.04 ATOM 4126 N TYR B 143 40.094 1.557 84.130 1.00 15.24 ATOM 4127 CA TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4128 CB TYR B 143 37.795 2.372 83.723 1.00 18.06 ATOM 4130 CD1 TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CE1 TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CE1 TYR B 143 39.265 5.658 84.991 1.00 27.42 ATOM 4132 CD2 TYR B 143 37.441 5.023 86.432 1.00 19.15 ATOM 4135 OH TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4136 C TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.50 ATOM 4138 N ILE B 144 38.938 -1.055 81.082 1.00 19.91 ATOM 4139 CA ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.938 -1.055 81.082 1.00 19.26 ATOM 4141 CG2 ILE B 144 38.282 -0.528 79.787 1.00 20.26 ATOM 4141 CG2 ILE B 144 36.901 0.053 80.113 1.00 20.93 ATOM 4141 CG2 ILE B 144 36.901 0.053 80.113 1.00 20.93 ATOM 4146 C ANN B 145 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.20 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 19.23 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.23 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.23 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.23 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.23.75 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.23.8 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 19.21 ATOM 4150 ODI ASN B 145 41.698 -3.623 80.451 1.00 19.23.75 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 19.23.75 ATOM 4152 C ASN B 145 41.698 -3.623 80.451 1.00 19.80 ATOM 4153 N ASN B 145 41.698 -3.623 80.451 1.00 19.80 ATOM 4154 N ASN B 145 41.698 -3.623 80.451 1.00 19.80 ATOM 4157 CA ASN B 145 41.698 -3.623 80.451 1.00 19.80 ATOM 4158 ODI ASN B 145 41.798 -4.935 81.242 71.00 22.78 ATOM 4166 C BASN B 146 41.998 -5.531 81.268 1.00 19.80 ATOM 4157 CA ASN B 146 41.998 -5.531 81.268 1.00 19.80 ATOM 4157 CA ASN B 146 41.999 -5.002 78.508 1.00 19.80 ATOM 4158 ODI ASN							0.662	84.190	1.00 37.40
ATOM 4125 O CYS B 142									1.00 22.77
ATOM 4126 N TYR B 143	MOTA								
ATOM 4128 CB TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4129 CG TYR B 143 38.016 3.622 84.535 1.00 24.34 ATOM 4130 CD1 TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CEL TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CEL TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CEL TYR B 143 39.038 6.552 1.00 19.15 ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CZ2 TYR B 143 37.226 3.892 86.432 1.00 21.95 ATOM 4134 CZ TYR B 143 37.426 5.658 84.991 1.00 23.94 ATOM 4135 OH TYR B 143 37.441 5.023 86.432 1.00 21.95 ATOM 4136 C TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 C TYR B 143 38.655 7.015 86.897 1.00 22.97 ATOM 4137 O TYR B 143 38.655 7.015 86.897 1.00 22.97 ATOM 4138 N ILE B 144 39.083 0.026 82.061 1.00 19.91 ATOM 4139 CA ILE B 144 38.938 1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.938 1.055 81.082 1.00 19.68 ATOM 4141 CG2 ILE B 144 38.918 1.055 81.082 1.00 19.68 ATOM 4143 CD1 ILE B 144 36.910 0.053 80.113 1.00 20.93 ATOM 4143 CD1 ILE B 144 36.910 0.053 80.113 1.00 20.93 ATOM 4144 C ILE B 144 36.910 0.053 80.113 1.00 22.91 ATOM 4146 N ASN B 145 40.320 1.627 80.774 1.00 22.78 ATOM 4146 N ASN B 145 40.320 1.627 80.774 1.00 22.78 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 10.23.75 ATOM 4149 CG ASN B 145 41.698 -3.623 80.451 1.00 20.86 ATOM 4150 OD1 ASN B 145 41.698 -3.623 80.451 1.00 20.86 ATOM 4151 ND2 ASN B 145 41.788 -4.935 81.243 1.00 17.81 ATOM 4151 ND2 ASN B 145 41.788 -5.918 82.471 1.00 22.69 ATOM 4150 OD1 ASN B 145 41.788 -5.918 78.955 1.00 23.18 ATOM 4151 ND2 ASN B 145 41.788 -7.4935 81.243 1.00 17.81 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 20.86 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 10.86 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 10.86 ATOM 4151 ND2 ASN B 145 41.698 -3.623 80.451 1.00 10.86 ATOM 4151 ND2 ASN B 146 42.293 -2.966 87.177 1.00 123.69 ATOM 4156 CB ASN B 146 42.797 -1.496 7.4322 7.60331 1.00 19.86 ATOM 4151 ND2 ASN B 146 42.797 -1.496 7.598 7.698 1.00 17.88 ATOM 4166 CB ASN B 146 42.797 -1.496 7.598 7.698 1.00 17.88 ATOM	MOTA	4125	0						
ATOM 4128 CB TYR B 143 38.675 1.194 84.155 1.00 21.97 ATOM 4128 CB TYR B 143 37.795 2.372 83.723 1.00 18.06 ATOM 4130 CD1 TYR B 143 38.016 3.622 84.535 1.00 24.34 ATOM 4131 CEL TYR B 143 39.265 5.658 84.991 1.00 27.42 ATOM 4131 CEL TYR B 143 39.265 5.658 84.991 1.00 27.42 ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CEZ TYR B 143 37.441 5.023 86.432 1.00 21.92 ATOM 4135 OH TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4135 OH TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4135 OH TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 C TYR B 143 39.083 0.026 82.061 1.00 19.91 ATOM 4137 O TYR B 143 39.083 0.026 82.061 1.00 19.91 ATOM 4138 N ILE B 144 38.938 -1.055 81.082 1.00 19.58 ATOM 4140 CB ILE B 144 38.938 -1.055 81.082 1.00 19.20 ATOM 4141 CGZ ILE B 144 38.938 -1.055 81.082 1.00 19.20 ATOM 4140 CB ILE B 144 36.199 0.697 78.917 1.00 20.26 ATOM 4145 O ILE B 144 40.020 -1.627 80.774 1.00 22.375 ATOM 4146 N ASN B 145 41.658 -3.623 80.451 1.00 22.38 ATOM 4146 N ASN B 145 41.658 -3.623 80.451 1.00 22.38 ATOM 4146 CB ASN B 145 41.658 -3.623 80.451 1.00 22.78 ATOM 4149 CG ASN B 145 41.658 -3.623 80.451 1.00 22.78 ATOM 4149 CG ASN B 145 41.658 -3.623 80.451 1.00 22.78 ATOM 4150 ODI ASN B 145 41.658 -3.623 80.451 1.00 22.78 ATOM 4151 ND2 ASN B 145 41.658 -3.623 80.451 1.00 20.63 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.88 ATOM 4150 ODI ASN B 145 41.658 -3.623 80.451 1.00 20.63 ATOM 4151 ND2 ASN B 146 42.277 -4.935 81.243 1.00 17.80 ATOM 4150 ND2 ASN B 146 42.277 -4.935 81.243 1.00 17.80 ATOM 4150 ND2 ASN B 146 42.277 -4.935 81.243 1.00 17.80 ATOM 4151 ND2 ASN B 145 41.658 -3.623 80.451 1.00 20.63 ATOM 4150 ND2 ASN B 145 41.658 -3.623 80.451 1.00 20.63 ATOM 4151 ND2 ASN B 145 41.658 -3.623 80.451 1.00 20.63 ATOM 4151 ND2 ASN B 146 42.777 -4.935 81.243 1.00 17.80 ATOM 4160 ND2 ASN B 146 42.777 -7.42 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 146 42.777 -7.42 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 146 42.777 -7.42 76.731 1.00 15.23 ATOM 4160 ND2 ASN B 146 42.777 -7.43 77.678 1.00 19.98 ATOM 4161 ND2	MOTA	4126	N	TYR B	143	40.094	1.557		
ATOM 4129 CG TYR B 143 37.795 2.372 83.723 1.00 18.06 ATOM 4129 CG TYR B 143 38.016 3.622 84.535 1.00 24.34 ATOM 4131 CEI TYR B 143 39.285 5.658 84.291 1.00 27.42 ATOM 4131 CEI TYR B 143 39.285 5.658 84.991 1.00 27.42 ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CE2 TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CE2 TYR B 143 37.441 5.023 86.432 1.00 21.92 ATOM 4135 OH TYR B 143 38.488 5.90 86.099 1.00 23.94 ATOM 4135 OH TYR B 143 38.488 5.90 86.099 1.00 23.94 ATOM 4136 C TYR B 143 38.488 5.90 86.099 1.00 23.94 ATOM 4137 O TYR B 143 38.481 0.008 83.218 1.00 19.91 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.50 ATOM 4139 CA LLE B 144 38.938 -1.055 81.082 1.00 19.50 ATOM 4139 CA LLE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 LLE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 LLE B 144 36.991 0.053 80.113 1.00 20.26 ATOM 4141 CG2 LLE B 144 36.991 0.053 80.113 1.00 20.93 ATOM 4140 CD1 LLE B 144 36.991 0.053 80.113 1.00 20.93 ATOM 4140 CD1 LLE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4140 CD1 LLE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4140 CD ASN B 145 40.320 -1.627 80.774 1.00 22.78 ATOM 4140 CD ASN B 145 40.320 -1.627 80.774 1.00 22.78 ATOM 4140 CD ASN B 145 41.780 -3.918 80.600 1.00 22.01 ATOM 4150 ODI ASN B 145 41.780 -3.918 80.277 1.00 23.18 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 22.69 ATOM 4151 ND2 ASN B 146 42.293 -2.968 78.177 1.00 22.69 ATOM 4151 ND2 ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4150 ODI ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4150 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4151 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4150 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4150 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4150 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4		4127	CA	TYR B	143	38.675	1.194	84.155	1.00 21.97
ATOM 4129 CG TYR B 143							2.372	83.723	1.00 18.06
ATOM 4130 CDI TYR B 143 39.038 4.516 84.214 1.00 23.20 ATOM 4131 CEL TYR B 143 39.265 5.658 84.991 1.00 27.42 ATOM 4132 CDZ TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4133 CEZ TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4134 CZ TYR B 143 37.226 3.892 85.652 1.00 19.15 ATOM 4134 CZ TYR B 143 37.226 3.892 85.652 1.00 21.92 ATOM 4135 OH TYR B 143 38.458 5.900 86.999 1.00 23.94 ATOM 4136 C TYR B 143 38.458 5.900 86.992 1.00 23.94 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.37 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.50 ATOM 4139 CA TLE B 144 38.982 -0.528 79.787 1.00 20.26 ATOM 4139 CA TLE B 144 38.282 -0.528 79.787 1.00 20.26 ATOM 4140 CE TLE B 144 38.151 -1.649 78.760 1.00 15.37 ATOM 4142 CGI TLE B 144 36.991 0.053 80.113 1.00 20.93 ATOM 4143 CDI TLE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 N ASN B 145 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 CDI TLE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4147 CA ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4149 CG ASN B 145 41.699 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.699 -3.623 80.451 1.00 20.63 ATOM 4150 ODI ASN B 145 41.699 -3.623 80.451 1.00 20.63 ATOM 4150 ODI ASN B 145 41.699 -3.918 80.227 1.00 23.63 ATOM 4151 NDZ ASN B 145 41.899 -3.918 80.227 1.00 23.63 ATOM 4151 NDZ ASN B 145 41.899 -3.918 80.227 1.00 23.63 ATOM 4155 CA ASN B 145 41.899 -3.918 78.955 1.00 21.18 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4158 ODI ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4160 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4160 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4161 CO ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4166 CG									1.00 24.34
ATOM 4131 CEL TYR B 143	ATOM								-
ATOM 4132 CD2 TYR B 143	ATOM	4130	CD1	TYR B	143				
ATOM 4132 CD2 TYR B 143 37.226 3.892 85.652 1.00 19.92 ATOM 4133 CC2 TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4135 OH TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 C TYR B 143 38.451 0.008 83.218 1.00 19.91 ATOM 4136 C TYR B 143 38.451 0.008 83.218 1.00 19.91 ATOM 4137 O TYR B 143 38.451 0.008 83.218 1.00 19.91 ATOM 4138 N ILE B 144 39.083 0.026 82.061 1.00 19.20 ATOM 4138 N ILE B 144 38.938 -1.055 81.082 1.00 19.20 ATOM 4140 CB ILE B 144 38.8938 -1.055 81.082 1.00 19.20 ATOM 4141 CG2 ILE B 144 38.8151 -1.649 78.766 1.00 15.37 ATOM 4142 CG1 ILE B 144 36.198 0.697 78.917 1.00 23.75 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 23.75 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 23.75 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 22.01 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4148 CB ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 DDI ASN B 145 43.188 -5.531 81.268 1.00 22.11 ATOM 4150 DDI ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4153 O ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4153 O ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4154 N ASN B 146 42.293 -2.968 78.177 1.00 17.80 ATOM 4155 C ASN B 146 42.293 -2.968 78.177 1.00 17.80 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 19.07 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 19.07 ATOM 4160 C ASN B 146 42.293 -2.968 78.177 1.00 19.07 ATOM 4160 C ASN B 146 42.293 -2.968 78.177 1.00 19.07 ATOM 4166 C ASN B 146 44.956 -1.488 70.89 77.435 1.00 19.97 ATOM 4166 C C PRO B 147 44.951 -3.918 78.290 1.00 19.98 ATOM 4166 C C PRO B 147 44.953 -3.919 78.240 1.00 19.98 ATOM 4166 C C PRO B 147 44.953 -3.919 78.240 1.00 19.99 ATOM 4166 C C PRO B 147 44.954 -7.789 75.532 1.00 19.91 ATOM 4166 C C PRO B 147 44.954 -7.789 75.537 76.903 1.00 19.95 ATOM 4170 CA ALA B 148 41.499 -9.567 76.404 1.00 19.95 ATOM 4	ATOM	4131	CE1	TYR B	143				
ATOM 4133 CE2 TYR B 143 37.441 5.023 86.432 1.00 21.94 ATOM 4135 OR TYR B 143 38.458 5.900 86.099 1.00 23.94 ATOM 4136 C TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4136 C TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.50 ATOM 4138 N ILE B 144 38.9083 0.026 82.061 1.00 19.26 ATOM 4139 CA ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 ILE B 144 36.991 0.053 80.113 1.00 20.26 ATOM 4142 CG1 ILE B 144 36.991 0.053 80.113 1.00 20.93 ATOM 4143 CD1 ILE B 144 36.991 0.053 80.113 1.00 22.78 ATOM 4145 O ILE B 144 40.200 -1.627 80.774 1.00 22.78 ATOM 4146 C ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 22.61 ATOM 4149 CG ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.678 -3.523 80.451 1.00 23.63 ATOM 4150 ODD ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 ODD ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4151 ND2 ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4155 CA ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4157 CG ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.2773 -1.880 76.015 1.00 17.65 ATOM 4157 CG ASN B 146 42.367 -3.175 76.733 1.00 19.86 ATOM 4157 CG ASN B 146 42.2773 -1.880 76.015 1.00 17.65 ATOM 4156 CB ASN B 146 42.367 -3.175 76.733 1.00 19.96 ATOM 4157 CG ASN B 146 42.367 -3.175 76.733 1.00 19.97 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.98 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.98 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.98 ATOM 4160 C ASN B 146 42.367 -3.175 76.678 1.00 17.65 ATOM 4160 C ASN B 146 42.367 -3.175 76.678 1.00 17.55 ATOM 4161 C ASN B 146 42.367 -3.175 76.678 1.00 17.55 ATOM 4160 C ASN B 146 42.367 -3.175 76.678 1.00 17.55 ATOM 4160 C ASN B 146 42.367 -3.175 76.678 1.00 17.55 ATOM 4160 C ASN B 146 42.367 -3.175 76.678 1.00 19.98 ATOM 4167 C ASN B 146 42.367 -3.375 77.392 1.00 22.58 ATOM 4166 C ASN B 146 42.		4132	CD2	TYR B	143	37.226	3.892		
ATOM 4136 C TYR B 143 38.458 5.900 86.099 1.00 23.34 ATOM 4136 C TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4136 C TYR B 143 38.431 0.008 83.218 1.00 19.91 ATOM 4137 0 TYR B 143 38.431 0.008 83.218 1.00 19.91 ATOM 4138 N ILE B 144 37.665 -0.902 83.535 1.00 22.50 ATOM 4139 CA ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4141 CG2 ILE B 144 38.151 -1.649 78.760 1.00 15.37 ATOM 4141 CG2 ILE B 144 36.901 0.053 80.113 1.00 20.26 ATOM 4144 C CI ILE B 144 40.320 -1.627 80.774 1.00 23.75 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 23.75 ATOM 4144 C ILE B 144 41.281 -0.873 80.600 1.00 22.78 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 23.18 ATOM 4148 CB ASN B 145 41.698 -3.623 80.451 1.00 23.76 ATOM 4149 CG ASN B 145 41.698 -3.623 80.451 1.00 23.63 ATOM 4150 ODI ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 41.788 -4.935 81.243 1.00 17.81 ATOM 4151 ND2 ASN B 145 41.788 -4.935 81.243 1.00 17.80 ATOM 4153 O ASN B 145 41.788 -5.531 81.268 1.00 25.17 ATOM 4150 ODI ASN B 145 41.788 -5.819 82.472 1.00 22.69 ATOM 4154 N ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4156 CB ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4156 CB ASN B 146 42.367 -3.175 76.733 1.00 19.71 80 ATOM 4156 CB ASN B 146 42.367 -3.175 76.733 1.00 19.78 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.98 ATOM 4161 O ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4166 C ASN B 146 42.367 -3.175 76.733 1.00 19.98 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4160 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4166 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4166 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4166 C ASN B 146 42.367 -3.175 76.733 1.00 19.75 ATOM 4166 C ASN B 146 42.367 -3.175 76.678 1.00 17.58 ATOM 4167 C ROB 147 44.358 -3.999 77.435 1.00 17.58 ATOM 4166 C ASN B 146 42.99						37.441	5.023	86.432	1.00 21.92
ATOM 4135 OH TYR B 143 38.655 7.015 86.877 1.00 22.37 ATOM 4136 C TYR B 143 38.451 0.008 83.218 1.00 19.91 ATOM 4137 O TYR B 143 37.665 -0.902 83.535 1.00 22.50 ATOM 4138 N ILE B 144 38.9083 0.026 82.061 1.00 19.26 ATOM 4139 CA ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.282 -0.528 79.787 1.00 20.26 ATOM 4141 CG2 ILE B 144 38.282 -0.528 79.787 1.00 20.26 ATOM 4141 CG2 ILE B 144 38.151 -1.649 78.760 1.00 15.37 ATOM 4142 CG1 ILE B 144 36.991 0.053 80.113 1.00 20.93 ATOM 4143 CD1 ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 C ASN B 145 40.422 -2.956 80.723 1.00 23.78 ATOM 4146 CB ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4150 DD1 ASN B 145 43.188 -5.531 81.268 1.00 17.81 ATOM 4150 DD1 ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4150 DD1 ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4153 O ASN B 145 43.693 -5.819 82.472 1.00 23.63 ATOM 4151 ND2 ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 12.36 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 17.80 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 19.71 ATOM 4160 C ASN B 146 42.293 -2.968 76.015 1.00 17.85 ATOM 4156 CB ASN B 146 42.293 -2.968 77.435 1.00 20.27 ATOM 4156 CB ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4160 C ASN B 146 42.293 -2.968 77.435 1.00 20.27 ATOM 4160 C ASN B 146 42.293 -2.968 77.435 1.00 19.71 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.71 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.71 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.75 ATOM 4160 C ASN B 146 44.									1.00 23.94
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ATOM 4139 CA ILE B 144 38.938 -1.055 81.082 1.00 19.68 ATOM 4140 CB ILE B 144 38.151 -1.649 78.760 1.00 15.37 ATOM 4141 CG2 IILE B 144 36.901 0.053 80.113 1.00 20.26 ATOM 4142 CG1 ILE B 144 36.901 0.053 80.113 1.00 22.93 ATOM 4143 CD1 ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4148 CB ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 ODI ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4150 ODI ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.693 -5.819 82.472 1.00 22.69 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4154 N ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CG ASN B 146 42.293 -2.968 76.306 1.00 17.65 ATOM 4158 ODI ASN B 146 42.293 -2.968 76.306 1.00 17.65 ATOM 4156 CB ASN B 146 42.773 -1.880 76.035 1.00 19.76 ATOM 4156 CB ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4156 CB ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4161 O ASN B 146 44.196 -1.458 77.082 1.00 20.27 ATOM 4160 C ASN B 146 44.196 -1.458 77.082 1.00 19.97 ATOM 4164 CA ASN B 146 44.196 -1.458 77.082 1.00 17.78 ATOM 4166 CB PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CB PRO B 147 44.358 -4.598 77.082 1.00 17.58 ATOM 4167 C PRO B 147 44.358 -4.598 77.082 1.00 17.58 ATOM 4167 C ASN B 148 42.767 -3.37 76.678 1.00 19.86 ATOM 4167 C ASN B 146 44.395 -0.798 77.435 1.00 19.88 ATOM 4167 C ASN B 148 42.777 -7.041 76.757 1.00 19.80 ATOM 4167 C PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4167 C PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4167 C PRO B 147 44.368 -7.300 75.866 1.00 19.88 ATOM 4170 CA ALA B 148 42.797 -7.575 75.575 76.678 1.00 17.58 ATOM 4167 C PRO B 147 44.368 -7.300 75.866 1.00 19.88 ATOM 4171 CB A	-					39.083	0.026	82.061	
ATOM 4140 CB ILE B 144 38.151 -1.649 78.760 1.00 20.26 ATOM 4141 CG2 ILE B 144 38.151 -1.649 78.760 1.00 15.37 ATOM 4142 CG1 ILE B 144 36.901 0.053 80.113 1.00 20.93 ATOM 4143 CD1 ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 OD1 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4153 O ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4155 CA ASN B 145 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4158 OD1 ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4159 ND2 ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4159 ND2 ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4160 C ASN B 146 44.196 -1.458 76.331 1.00 19.07 ATOM 4161 O ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4163 CD PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4168 O PRO B 147 44.357 -7.041 76.557 1.00 20.91 ATOM 4168 O PRO B 147 44.358 -4.598 77.082 1.00 17.58 ATOM 4169 N ALA B 148 42.772 -8.362 78.008 1.00 19.82 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 19.83 ATOM 4173 O ALA B 148 42.732 -8.362 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.732 -8.362 79.372 1.00 17.58 ATOM 4174 N VAL B 149 40.086 -7.341 76.540 1.00 12.83 ATOM 4173 O ALA B 148 41.683 -8.473 76.640 1.00 12.83 ATOM 4173 O ALA B 148 41.683 -8.473 76.640 1.00 12.83 ATOM 4174 N VAL B						38.938	-1.055	81.082	1.00 19.68
ATOM 4141 CG2 ILE B 144 36.901 0.053 80.113 1.00 20.93 ATOM 4142 CG1 ILE B 144 36.901 0.053 80.113 1.00 20.93 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4148 CB ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4148 CB ASN B 145 41.698 -5.531 81.268 1.00 17.81 ATOM 4150 OD1 ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4153 O ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4157 CG ASN B 146 42.367 -3.175 76.733 1.00 19.71 ATOM 4158 OD1 ASN B 146 42.367 -3.175 76.333 1.00 19.76 ATOM 4159 ND2 ASN B 146 44.196 -1.458 76.306 1.00 17.65 ATOM 4150 C ASN B 146 44.196 -1.458 76.306 1.00 17.65 ATOM 4160 C ASN B 146 44.196 -1.735 75.532 1.00 20.27 ATOM 4160 C ASN B 146 44.196 -1.735 75.532 1.00 20.27 ATOM 4161 O ASN B 146 44.395 -0.798 77.435 1.00 19.86 ATOM 4161 O ASN B 146 44.395 -0.798 77.435 1.00 19.77 ATOM 4166 CG PRO B 147 44.953 -3.919 78.240 1.00 17.78 ATOM 4166 CG PRO B 147 44.953 -3.919 78.240 1.00 17.78 ATOM 4168 O PRO B 147 44.953 -3.919 78.240 1.00 17.78 ATOM 4168 O PRO B 147 44.953 -3.919 78.240 1.00 17.58 ATOM 4169 N ALA B 148 42.049 -8.312 79.372 1.00 20.91 7.75 ATOM 4168 O PRO B 147 44.377 -7.041 76.757 1.00 20.91 7.76 ATOM 4167 C PRO B 147 44.953 -3.919 78.240 1.00 17.58 ATOM 4168 O PRO B 147 44.953 -3.919 78.240 1.00 17.58 ATOM 4168 O PRO B 147 44.953 -3.919 78.240 1.00 17.58 ATOM 4168 O PRO B 147 44.951 -3.75 ATOM 4168 O PRO B 147 44.951 -3.75 ATOM 4168 O PRO B 147 44.951 -3.75 ATOM 4168 O PRO B 147 44.961 -7.901 75.87 1.00 20.91 75.87 ATOM 4168 O PRO B 147 44.951 -3.919 78.240 1.00 17.58 ATOM 4179 C ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4179 C ALA									
ATOM 4142 CG1 ILE B 144 36.198 0.697 78.917 1.00 22.78 ATOM 4143 CD1 ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4149 CG ASN B 145 42.188 -5.531 81.268 1.00 25.17 ATOM 4150 DD1 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4153 O ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CB ASN B 146 42.367 -3.175 76.733 1.00 19.71 ATOM 4158 OD1 ASN B 146 42.367 -3.175 76.733 1.00 19.71 ATOM 4158 OD1 ASN B 146 44.196 -1.458 76.306 1.00 17.85 ATOM 4159 ND2 ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4150 CB ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4150 CD ASN B 146 44.395 -0.798 77.435 1.00 19.76 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 19.86 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 19.76 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 19.77 ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 18.13 ATOM 4161 CB PRO B 147 44.358 -4.598 77.082 1.00 18.13 ATOM 4163 CD PRO B 147 44.358 -4.598 77.082 1.00 19.98 ATOM 4165 CB PRO B 147 44.358 -4.598 77.082 1.00 19.99 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 19.75 ATOM 4166 CG PRO B 147 44.357 -7.041 76.757 1.00 20.91 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 19.58 ATOM 4170 CA ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 17.53 ATOM 4175 CB ALA B 148 42.049 -8.312 79.372 1.00 17.53 ATOM 4177 CG1 VAL									
ATOM 4143 CDI ILE B 144	ATOM								
ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.678 -4.935 81.243 1.00 17.81 ATOM 4150 ODI ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4151 ND2 ASN B 145 43.884 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.8804 -5.742 80.227 1.00 23.63 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4154 N ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.367 -3.175 76.733 100 19.71 ATOM 4156 CB ASN B 146 42.773 -1.880 76.306 1.00 17.65 ATOM 4157 CG ASN B 146 44.196 -1.458 76.306 1.00 17.65 ATOM 4158 ODI ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 20.27 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4163 CD PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -7.704 76.757 1.00 19.07 ATOM 4167 C PRO B 147 44.358 -7.704 76.757 1.00 17.58 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 17.58 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 17.58 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 42.049 -8.312 77.704 76.500 1.00 22.58 ATOM 4173 CA ALA B 148 42.049 -8.312 77.704 76.500 1.00 22.58 ATOM 4173 CA ALA B 148 42.049 -8.312 77.704 76.500 1.00 22.58 ATOM 4173 CA ALA B 148 42.049 -8.312 77.704 76.500 1.00 22.58 ATOM 4173 CA ALA B 148 42.049 -8.312 77.704 76.500 1.00 17.50 ATOM 4168 CG VAL B 149 39.503 -5.877 75.281 1.00 18.38 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 19.04 ATOM 4178 CG VAL B 149 39.503 -5.877 7	ATOM	4142	CG1						_
ATOM 4144 C ILE B 144 40.320 -1.627 80.774 1.00 22.78 ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.201 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4148 CB ASN B 145 41.698 -3.623 80.451 1.00 17.81 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 0D1 ASN B 145 43.188 -5.531 81.268 1.00 25.17 ATOM 4151 ND2 ASN B 145 43.693 -5.819 82.472 1.00 22.69 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4153 O ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 19.71 ATOM 4156 CB ASN B 146 42.293 -2.968 78.177 1.00 19.71 ATOM 4157 CG ASN B 146 42.773 -1.880 76.015 1.00 19.76 ATOM 4158 0D1 ASN B 146 44.196 -1.458 76.306 1.00 19.71 ATOM 4160 C ASN B 146 44.196 -1.458 76.306 1.00 19.78 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 20.27 ATOM 4163 CD PRO B 147 44.358 -4.558 77.082 1.00 18.61 ATOM 4166 CB PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 44.358 -4.558 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -4.558 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.358 -4.558 77.6678 1.00 19.98 ATOM 4166 CG PRO B 147 44.358 -4.558 77.6678 1.00 19.98 ATOM 4166 CG PRO B 147 44.358 -4.598 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.358 -4.598 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.358 -4.598 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4167 C PRO B 147 44.377 -7.041 76.757 1.00 19.98 ATOM 4168 O PRO B 147 44.377 -7.041 76.757 1.00 19.98 ATOM 4167 C ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4170 CA ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4170 CA ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4172 C ALA B 149 40.086 -7.300 75.466 1.00 18.38 ATOM 4173 O ALA B 148 42.049 -8.312 79.372 1.00 12.53 ATOM 4176 CB VAL B 149 39.503 -5.877 76.404 1.00 22.48 ATOM 4177 CA VAL B 149 39.503 -5.877 77.5281 1.00 19.94 ATOM 4178 CG2 VAL	ATOM	4143	CD1	ILE B	144				
ATOM 4145 O ILE B 144 41.281 -0.873 80.600 1.00 22.01 ATOM 4146 N ASN B 145 40.422 -2.956 80.723 1.00 23.18 ATOM 4147 CA ASN B 145 41.698 -3.623 80.451 1.00 20.63 ATOM 4149 CG ASN B 145 41.778 -4.935 81.243 1.00 17.81 ATOM 4150 ODI ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4151 ND2 ASN B 145 43.804 -5.742 80.227 1.00 23.63 ATOM 4152 C ASN B 145 41.780 -3.918 78.955 100 21.18 ATOM 4154 N ASN B 145 41.389 -5.002 78.508. 1.00 17.80 ATOM 4155 CA ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.367 -3.175 76.733 100 19.71 ATOM 4156 CB ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4158 ODI ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4160 C ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4166 CB PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CG PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CB PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4166 CB PRO B 147 44.358 -7.708 1.00 19.96 ATOM 4166 CB PRO B 147 44.358 -7.7082 1.00 17.78 ATOM 4166 CB PRO B 147 44.358 -7.7082 1.00 17.78 ATOM 4167 C PRO B 147 44.358 -7.7082 1.00 17.58 ATOM 4167 C PRO B 147 44.358 -7.7082 1.00 17.58 ATOM 4167 C PRO B 147 44.358 -7.7082 1.00 17.58 ATOM 4167 C PRO B 147 44.358 -7.709 78.240 1.00 18.38 ATOM 4170 CA ALA B 148 42.049 -8.312 79.372 1.00 17.59 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.59 ATOM 4173 CA ALA B 148 42.049 -8.312 79.372 1.00 17.59 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4177 CG1 VAL B 149 39.503 -5.877 75.281 1.00 18.36 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 18.36 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.321 1.00 18.36 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.321 1.00 19.51		4144	С	ILE B	144	40.320	-1.627	80.774	
ATOM 4146 N ASN B 145						41.281	-0.873	80.600	1.00 22.01
ATOM 4147 CA ASN B 145 ATOM 4148 CB ASN B 145 ATOM 4149 CG ASN B 145 ATOM 4149 CG ASN B 145 ATOM 4150 OD1 ASN B 145 ATOM 4151 ND2 ASN B 145 ATOM 4152 C ASN B 145 ATOM 4152 C ASN B 145 ATOM 4153 O ASN B 145 ATOM 4154 N ASN B 146 ATOM 4155 CA ASN B 146 ATOM 4155 CA ASN B 146 ATOM 4157 CG ASN B 146 ATOM 4158 OD1 ASN B 146 ATOM 4158 OD1 ASN B 146 ATOM 4159 ND2 ASN B 146 ATOM 4159 ND2 ASN B 146 ATOM 4150 OD1 ASN B 146 ATOM 4150 CB ASN B 146 ATOM 4157 CG ASN B 146 ATOM 4158 OD1 ASN B 146 ATOM 4159 ND2 ASN B 146 ATOM 4160 C ASN B 146 ATOM 4161 O ASN B 146 ATOM 4161 C ASN B 146 ATOM 4162 N PRO B 147 ATOM 4163 CD PRO B 147 ATOM 4163 CD PRO B 147 ATOM 4166 CB PRO B 147 ATOM 4166 CB PRO B 147 ATOM 4166 CB PRO B 147 ATOM 4167 CB PRO B 147 ATOM 4168 O PRO B 147 ATOM 4169 N ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4173 CB ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4173 CB ALA B 149 ATOM 4174 CB ALA B 149 ATOM 4175 CC VAL B 149 ATOM 4176 CB VAL B 149 ATOM 4177 CC ALA B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4176 CB VAL B 149 ATOM 4177 CG1 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 14								80 723	
ATOM 4148 CB ASN B 145 ATOM 4149 CG ASN B 145 ATOM 4150 OD1 ASN B 145 ATOM 4151 ND2 ASN B 145 ATOM 4152 C ASN B 145 ATOM 4153 O ASN B 145 ATOM 4154 N ASN B 145 ATOM 4155 CA ASN B 146 ATOM 4156 CB ASN B 146 ATOM 4157 CG ASN B 146 ATOM 4158 OD1 ASN B 146 ATOM 4158 OD1 ASN B 146 ATOM 4159 ND2 ASN B 146 ATOM 4160 C ASN B 146 ATOM 4161 O ASN B 146 ATOM 4161 O ASN B 146 ATOM 4162 N PRO B 147 ATOM 4163 CD PRO B 147 ATOM 4165 CB PRO B 147 ATOM 4166 CG PRO B 147 ATOM 4166 CG PRO B 147 ATOM 4167 CB ALA B 148 ATOM 4168 O PRO B 147 ATOM 4167 CB ALA B 148 ATOM 4167 CB ALA B 148 ATOM 4168 O PRO B 147 ATOM 4167 CB ALA B 148 ATOM 4168 O PRO B 147 ATOM 4167 CB ALA B 148 ATOM 4168 O PRO B 147 ATOM 4169 N ALA B 148 ATOM 4167 CB ALA B 148 ATOM 4167 CB ALA B 148 ATOM 4167 CB ALA B 148 ATOM 4168 O PRO B 147 ATOM 4169 N ALA B 148 ATOM 4167 CB ALA B 148 ATOM 4178 CG ALA B 148 ATOM 4179 CC ALA B 149 ATOM 4178 CG VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG									
ATOM 4149 CG ASN B 145	ATOM	4147							
ATOM 4150 ODI ASN B 145	ATOM	4148	CB						
ATOM 4150 OD1 ASN B 145	ATOM	4149							
ATOM 4151 ND2 ASN B 145		4150	OD1	ASN B	145	43.804	-5.742		
ATOM 4152 C ASN B 145 41.780 -3.918 78.955 1.00 21.18 ATOM 4153 O ASN B 145 41.389 -5.002 78.508 1.00 17.80 ATOM 4154 N ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.367 -3.175 76.733 1.00 19.71 ATOM 4156 CB ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4157 CG ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4158 OD1 ASN B 146 45.109 -1.735 75.532 1.00 20.27 ATOM 4159 ND2 ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4166 CG PRO B 147 45.197 -5.735 76.678 1.00 19.98 ATOM 4166 CG PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 17.58 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 17.58 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.58 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 18.38 ATOM 4175 CA VAL B 149 39.503 -5.877 75.281 1.00 18.38 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.38 ATOM 4176 CB VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 21.53						43.693	-5.819	82.472	
ATOM 4153 O ASN B 145					145	41.780	-3.918	78.955	
ATOM 4153 N ASN B 146 42.293 -2.968 78.177 1.00 15.23 ATOM 4155 CA ASN B 146 42.367 -3.175 76.733 1.00 19.71 ATOM 4156 CB ASN B 146 42.773 -1.880 76.306 1.00 19.86 ATOM 4157 CG ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4158 ND2 ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4159 ND2 ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 19.98 ATOM 4166 CG PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4168 O PRO B 147 44.357 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.3568 -7.172 77.809 1.00 17.58 ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 17.58 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 17.50 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4179 C VAL B 149 40.2							-5.002	78.508.	1.00 17.80
ATOM 4155 CA ASN B 146 42.567 -3.175 76.733 1.00 19.71 ATOM 4156 CB ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4157 CG ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4158 OD1 ASN B 146 45.109 -1.735 75.532 1.00 20.27 ATOM 4159 ND2 ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4163 CD PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4164 CA PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 19.98 ATOM 4166 CG PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4172 C ALA B 148 42.732 -8.362 78.008 1.00 17.50 ATOM 4173 O ALA B 148 42.732 -8.362 78.008 1.00 17.50 ATOM 4174 N VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.18 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 21.83									1.00 15.23
ATOM 4156 CB ASN B 146 42.773 -1.880 76.015 1.00 17.65 ATOM 4157 CG ASN B 146 44.196 -1.458 76.306 1.00 19.86 ATOM 4158 OD1 ASN B 146 44.196 -1.735 75.532 1.00 20.27 ATOM 4159 ND2 ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4179 C VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4179 C VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4179 C VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 40.763 -7.709 74.166 1.00 22.18									
ATOM 4157 CG ASN B 146									
ATOM 4158 OD1 ASN B 146	MOTA								
ATOM 4159 ND2 ASN B 146 ATOM 4160 C ASN B 146 ATOM 4161 O ASN B 146 ATOM 4162 N PRO B 147 ATOM 4163 CD PRO B 147 ATOM 4164 CA PRO B 147 ATOM 4165 CB PRO B 147 ATOM 4166 CG PRO B 147 ATOM 4166 CG PRO B 147 ATOM 4167 C PRO B 147 ATOM 4168 O PRO B 147 ATOM 4169 N ALA B 148 ATOM 4169 N ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4172 C ALA B 148 ATOM 4173 O ALA B 148 ATOM 4174 N VAL B 149 ATOM 4175 CB VAL B 149 ATOM 4176 CB VAL B 149 ATOM 4177 CG1 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4170 C	ATOM	4157	CG						
ATOM 4159 ND2 ASN B 146 44.395 -0.798 77.435 1.00 11.85 ATOM 4160 C ASN B 146 43.277 -4.342 76.331 1.00 19.07 ATOM 4161 O ASN B 146 43.030 -4.996 75.328 1.00 18.61 ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4164 CA PRO B 147 45.197 -5.735 76.678 1.00 19.98 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 46.425 -4.201 78.020 1.00 26.27 ATOM 4166 CG PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 22.12 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 22.12 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 22.12 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 22.12 ATOM 4179 C VAL B 149 38.621 -5.531 76.462 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4179 C VAL B 149 40.763 -7	MOTA	4158	OD1	ASN B	146				
ATOM 4160 C ASN B 146		4159	ND2	ASN B	146		-0.798		
ATOM 4161 O ASN B 146 ATOM 4162 N PRO B 147 ATOM 4163 CD PRO B 147 ATOM 4164 CA PRO B 147 ATOM 4165 CB PRO B 147 ATOM 4166 CG PRO B 147 ATOM 4167 C PRO B 147 ATOM 4168 O PRO B 147 ATOM 4169 N ALA B 148 ATOM 4170 CA ALA B 148 ATOM 4171 CB ALA B 148 ATOM 4172 C ALA B 148 ATOM 4173 O ALA B 148 ATOM 4174 N VAL B 149 ATOM 4175 CA VAL B 149 ATOM 4176 CB VAL B 149 ATOM 4177 CG1 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4178 CG2 VAL B 149 ATOM 4179 C VAL B 149 ATOM 4180 O VAL B 149 ATOM 418			c	ASN B	146	43.277	-4.342	76.331	
ATOM 4162 N PRO B 147 44.358 -4.598 77.082 1.00 17.78 ATOM 4163 CD PRO B 147 44.953 -3.919 78.240 1.00 18.13 ATOM 4164 CA PRO B 147 45.197 -5.735 76.678 1.00 19.98 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 46.425 -4.201 78.020 1.00 26.27 ATOM 4167 C PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4172 C ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 39.503 -5.877 75.281 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83				SN B	146		-4.996	75.328	1.00 18.61
ATOM 4163 CD PRO B 147				מ אפת	147				1.00 17.78
ATOM 4164 CA PRO B 147 45.197 -5.735 76.678 1.00 19.98 ATOM 4165 CB PRO B 147 46.338 -5.694 77.698 1.00 24.29 ATOM 4166 CG PRO B 147 46.425 -4.201 78.020. 1.00 26.27 ATOM 4167 C PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4172 C ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83									
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ATOM 4167 C PRO B 147 44.377 -7.041 76.757 1.00 20.91 ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4172 C ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4173 O ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 18.38 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83						46.425	-4.201	78.020.	
ATOM 4168 O PRO B 147 44.461 -7.892 75.871 1.00 17.58 ATOM 4169 N ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4172 C ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4173 O ALA B 148 41.419 -9.567 76.404 1.00 18.38 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83							-7.041	76.757	1.00 20.91
ATOM 4169 N ALA B 148 43.568 -7.172 77.809 1.00 15.81 ATOM 4170 CA ALA B 148 42.732 -8.362 78.008 1.00 19.82 ATOM 4171 CB ALA B 148 42.049 -8.312 79.372 1.00 17.50 ATOM 4172 C ALA B 148 41.683 -8.473 76.903 1.00 22.58 ATOM 4173 O ALA B 148 41.419 -9.567 76.404 1.00 18.38 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 19.51									
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ATOM 4172 C ALA B 148 41.683 -8.473 76.903 1.00 22.38 ATOM 4173 O ALA B 148 41.419 -9.567 76.404 1.00 18.38 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83	ATOM	4171	CB	ALA B	148				
ATOM 4173 O ALA B 148 41.419 -9.567 76.404 1.00 18.38 ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83			С						1.00 22.58
ATOM 4174 N VAL B 149 41.080 -7.341 76.540 1.00 22.48 ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83						41.419	-9.567		1.00 18.38
ATOM 4175 CA VAL B 149 40.086 -7.300 75.466 1.00 19.04 ATOM 4176 CB VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4176 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 19.51						41.080	-7.341	76.540	1.00 22.48
ATON 4175 CA VAL B 149 39.503 -5.877 75.281 1.00 18.96 ATOM 4176 CB VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 19.51								75.466	1.00 19.04
ATON 4177 CG1 VAL B 149 38.691 -5.800 73.988 1.00 17.32 ATON 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 15.33 ATON 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83									1 00 18.96
ATOM 4177 CG1 VAL B 149 38.691 -5.800 73.968 1.00 15.32 ATOM 4178 CG2 VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83	ATOM								1 00 17 32
ATOM 4178 CG2 VAL B 149 38.621 -5.531 76.462 1.00 13.33 ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 150 41.927 -7.120 73.903 1.00 19.51		4177	CG1						1.00 11.32
ATOM 4179 C VAL B 149 40.763 -7.709 74.166 1.00 22.12 ATOM 4180 O VAL B 149 40.240 -8.535 73.421 1.00 21.83 ATOM 4180 O VAL B 150 41 927 -7.120 73.903 1.00 19.51		4178	CG2						1.00 13.33
ATOM 4180 0 VAL B 149 40.240 -8.535 73.421 1.00 21.83				VAL B	149				1.00 22.12
111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				VAL B	149	40.240	-8.535		1.00 21.83
ATOM 4101 N OD2 - 1 T				GLY B	150	41.927	-7,120	73.903	1.00 19.51
	ATOM	-3 T O T	44	J2	-		_		

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MOTA	4182	CA	GLY B	150	42	. 657	-7.4		72.689	1.00	
ATOM	4183	C	GLY 3			.033	-8.9		72.606	1.00	
ATOM	4184	0	GLY B	150		.862	-9.5		71.568	1.00	
ATOM	4185	N	ILE B			.558	-9.4		73.700	1.00	23.21
ATOM	4186	CA	ILE B			.958	-10.8	-	73.723 75.053		23.21
MOTA	4187	CB	ILE B				-11.1			1.00	
MOTA	4188	CG2	ILE 3	151			-12.6		75.158 75.129		21.98
ATOM	4189	CG1	ILE B	151			-10.3 -10.5	-	76.457		21.24
MOTA	4190	CD1	ILE B				-11.7		73.490		28.40
MOTA	4191	C		151			-12.6		72.706		22.96
ATOM	4192	0		151 · 152			-11.4		74.144	1.00	
MOTA	4193	N	GLU B	152			-12.2		73.939	1.00	27.62
ATOM	4194 4195	CA CB	GLU B	152			-11.8		74.886		26.46
MOTA	4196	CG	GLU B	152	39	.533	-12.2	00	76.347		28.26
ATOM ATOM	4197	CD		152			-13.7		76.592		31.10
MOTA	4198		GLU B				-14.1		77.767		29.55
ATOM	4199		GLU B	152			-14.4		75.617		30.51
ATOM	4200	С	GLU B			.948	-12.1		72.497		30.30 25.58
MOTA	4201	0	GLU B	152		.463	-13.0		71.893 71.948		26.23
MOTA	4202	N	TYR B			.093	-10.9 -10.6		70.563	1.00	28.19
MOTA	4203	CA	TYR B			.082	-10.6		70.190	1.00	27.94
MOTA	4204	CB	TYR B			.379	-8.8		68.735	1.00	28.46
ATOM	4205	CG	TYR B			.618			68.240	1.00	25.69
ATOM	4206	CD1	TYR B			.447			66.898	1.00	30.73
MOTA	4207 4208	CD2				.962		B47	67.856	1.00	24.82
ATOM ATOM	÷209	CE2			. 40	.801			66.526		29.26
ATOM	4210	CZ	TYR B			.547			66.054	1.00	31.25
ATOM	4211	OH	TYR B			.406			64.735	1.00	34.22 28.11
ATOM	4212	С	TYR. B	153		513			69.674 68.759	1.00	22.06
ATOM	4213	0	TYR E			9.975 L.810			69.944	1.00	26.77
MOTA	4214	N	LEU B			2.681			69.168	1.00	28.79
MOTA	4215	CA	LEU E			1.142			69.592	1.00	28.06
MOTA	4216 4217	CB CG	LEU E			1.789			69.083	1.00	27.71
MOTA MOTA	4218	CD1			4	5.119	-10.	860	69.759	1.00	34.15
ATOM	4219	CD2			4	4.968	-11.		67.571	1.00	26.71
ATOM	4220	С	LEU E				-14.		69.274	1.00	25.98 29.88
ATOM	4221	0	LEU E			2.282			68.271 70.480		23.19
ATOM	4222	V	ARG E	3 155		1.996 1.622			70.669	1.00	29.47
MOTA	4223	CA	ARG E				-16.		72.144	1.00	28.53
MOTA	4224	CB	ARG E				7 -15.		73.053	1.00	35.03
ATOM	4225	CS	ARG I			2.212			74.507		39.42
MOTA	4226 4227	NE	ARG I		4	2.165	5 -17.	706	74.792		30.99
atom atom	4228	CZ	ARG	3 155	4	1.869	-18.	209	75.986		41.33
ATOM	4229	NH:	L ARG	3 155	4	1.59	1 -17.	394	77.002		38.47
ATOM	4230	NH:	ARG 3	B 155	4	1.872	2 -19.	523	76.178		29.07
ATOM	4231	С	ARG !	B 155	4	0.39.	3 -16.	260	69.832 69.203		25.31
ATCM	4232	0	ARG	B 155	4	0.32	5 -17. 9 -15.	357	69.828	1.00	28.99
ATOM	4233	7		B 156	3	2.31. 0.71	6 - 15.	573	69.038		34.63
MOTA	4234	CA		B 156 B 156	ر ع	7.14	8 -14.	534	69.386	1.00	36.63
ATOM	4235		1 VC	B 156	3	6.39	3 -14.	. 883	70.646	1.00	42.18
MOTA	4236		1VS	B 156			2 -14.		71.868	1,00	51.38
ATCM	4237 4238			B 156	3	6.68	5 -15	.712	73.009	1.00	52.76
atom atom	±23,0		LYS	B 156	3	6.56	1 -17	.172	72.677		51.29
ATOM	4240		LYS	B 155	3	8.50	4 -15	.562	67.538		34.66 33.53
ATCM	4241		LYS	в 156	3	7.72	2 -16	.088	66.754		30.06
ATCM	4242		LYS	B 157	3	9.52	5 -14	906.	67.140 65.73		31.36
ATOM	4243	CA		B 157	3	פים מו	6 -14 8 -13	745	65.418		29.79
ATOM	4244			B 157	,	10.CB	7 -12	426	65.35	9 1.0	0 31.52
ATOM	4245			B 157	7		2 -12	.424	64.23	9 1.0	0 28.48
ATOM	4246			B 157 B 157	-	38.39	5 -11	.101	64.17		0 31.90
ATOM	4247	CE	, LID	D Ti	•				•		

ATOM	4248	NZ	LYS B	157		37.406	-11.080	63.054	1.00	32.91
ATOM	4249	C	LYS B			40.724	-16.234	65.381		31.92
ATOM	4250	Ō	LYS B	157		41.146	-16.421	64.246	1.00	33.58
ATOM	4251	N	GLY B			40.890	-17.111	66.368	1.00	28.97
ATOM	4252	CA	GLY B	158		41.546	-18.379	66.112	1.00	28.98
ATOM	4253	С	GLY B			42.962	-18.569	66.622	1.00	33.33
ATOM	4254	0	GLY B			43.503	-19.672	66.522	1.00	30.58
ATOM	4255	N	PHE B			43.578	-17.521	67.164		32.80
ATOM	4256	CA	PHE B.			44.937	-17.657	67.678		28.89
MOTA	4257	CB -					-16.286	67.934		30.33
MOTA	4258	CG	PHE B				-15.470	66.692		28:53
MOTA	4259	CD1	PHE B				-14.787	66.121		24.58
ATOM	4260	CD2	PHE B		•		-15.420	66.068		24.21
HOTA	4261	CE1	PHE B				-14.066	64.948		25.26
MOTA	4262	CE2	PHE B				-14.706	64.895		23.66
ATOM	4263	CZ	PHE B				-14.026	64.332		26.65
ATOM	4264	C	PHE B				-18.484	68.958		30.92 24.26
ATOM	4265	0	PHE B				-18.334 -19.347	69.820 69.077		28.86
MOTA	4266 4267	N	LYS B				-20.224	70.237		30.27
ATOM	4268	CA CB		160			-21.692	69.800		32.05
ATOM ATOM	4269	CG	LYS B				-22.117	69.113		41.13
ATOM	4270	CD	LYS B				-23.621	68.826		40.73
ATOM	4271	CE	LYS B				-24.031	67.904		43.16
ATOM	4272	NZ	LYS B				-23.408	66.554		48.69
ATOM	4273	C		160			-19.997	71.048	1.00	28.23
ATOM	4274		LYS B	160		47.552	-20.561	72.130		25.29
ATOM	4275	N	ARG B	161		48.320	-19.206	70.520	1.00	28.51
ATOM	4276	CA	ARG B	161			-18.921	71.247		25.84
MOTA	4277	CB	ARG B				-19.719	70.667		25.33
MOTA	4278	CG	ARG B				-21.245	70.781		27.47
MOTA	4279	CD	ARG B				-21.985	70.394		32.27
MOTA	4280	NE	ARG B				-21.761	69.002		34.90
ATOM	4281	CZ	ARG B				-22:276	67.954		38.45
ATOM	4282		ARG B				-23.056	68.130		38.77 38.64
ATOM	4283	NH2	ARG B				-22.000 -17.421	66.725 71.182		30.40
ATOM	4284 4285	С 0	ARG B				-16.912	70.218		27.50
ATOM ATOM	4286	N		162			-16.722	72.221		25.64
ATOM	4287	CA	ILE B				-15.273	72.303		27.44
ATOM	4288	CB		162			-14.618	72.545		24.53
ATOM	4289	CG2	ILE B				-13.101	72.473	1.00	25.49
ATOM	4290	CG1		162		47.142	-15.101	71.487	1.00	29.46
ATOM	4291	CD1	ILE B	162		45.688	-14.707	71.758	1.00	31.94
ATOM	4292	С	ILE B				-14.868	73.429		22.68
ATOM	4293	0	ILE B	162			-15.302	74.568	1.00	24.25
ATOM	4294	N	LEU B				-14.042	73.100		19.49
ATOM	4295	CA	LEU B				-13.561	74.081		17.57
ATOM	4296	CB	LEU B				-13.686	73.528		20.54
ATOM	1297	CG	LEU B				-12.975	74.295		18.84
ATOM	4298		LEU B				-13.538	75.690		20.55
ATOM	4299		LEU B				-13.148	73.556		18.57 16.20
ATCM	4300	C	LEU B				-12.099 -11.277	74.430 73.549		16.09
ATOM	4301	O	LEU B				-11.780	75.715		14.05
ATOM	4302 4303	N CA	TYR B				-10.411	76.191		16.21
atom Atom	4303	CB	TYR B				-10.323	77.070		16.01
ATOM	4305	CG	TYR B			50.534	-8.948	77.667		15.08
ATOM	4305	CD1				50.148		. 76.869		19.51
atom atom	4300	CEI	TYR B			49.948	-6.597	77.418		12.88
ATOM	4308	CD2	TYR B			50.715	-8.724	79.021		14.07
ATOM	4309	CE2				50.520	-7.463	79.583	1.00	13.66
ATOM	4310	CZ	TYR B			50.139	-6.407	78.782		14.72
ATOM	4311	ОН	TYR B			49.952	-5.163	79.354		13.54
ATOM	4312	С	TYR B	164			-10.017	77.018		19.14
ATOM	4313	0	TYR B	164		53.539	-10.642	78.036	1.00	26.51

MOTA	4314	N :	ILE B	165	53.964	-8.992	76.573	1.00 22.40
			ILE B		55.148	-8.518	77.285	1.00 17.72
ATOM	4315				56.352	-8.465	76.343	1.00 22.51
MOTA	4316			165				1.00 16.36
MOTA	4317	CG2	ILE B	165	57.582	-7.902	77.079	
ATOM	4318				56.632	-9.880	75.818	1.00 19.82
					57.721	-9.942	74.742	1.00 21.74
ATOM	4319						77.850	1.00 22.54
ATOM	4320	C	ILE B	165	54.851	-7.126		
ATOM	4321	0	ILE B	165	54.478	-6.223	77.111	1.00 16.60
			ASP B	166	55.046	-6.961	79.156	1.00 15.78
ATOM	4322				54.740	-5.704	79.840	1.00 20.62
MOTA	4323		ASP B	166	_			1.00 17.57
ATOM	4324	CB .	ASP B	166	53.719	-5.996	80.949	
ATOM	4325	CG .	ASP B	166	53.063	-4.742	81.486	1.00 25.39
			ASP B		53.779	-3.859	82.003	1.00 19.68
MOTA	4326				51.824	-4.637	81.377	1.00 29.22
MOTA	4327		ASP B					1.00 19.01
MOTA	4328		ASP B		55.976	-5.002	80.423	
ATOM	4329	0	ASP B	166	56.509	-5.412	81.456	1.00 19.74
			LEU B		56.414	-3.923	79.775	1.00 17.88
MOTA	4330				57.598	-3.211	80.235	1.00 14.99
ATOM	4331		LEU B				79.044	1.00 19.22
ATOM	4332		LEU B		58.412	-2.710		
ATOM	4333	CG	LEU B	167	58.871	-3.799	78.069	1.00 22.68
	4334		LEU B		59.835	-3.179	77.074	1.00 25.35
MOTA					59.570	-4.943	78.808	1.00 17.54
ATOM	4335	CDZ	LEU B				81.183	1.00 17.49
ATOM	4336		LEU B		57.284	-2.059		
ATOM	4337	0	LEU B	167	58.189	-1.359	81.639	1.00 13.39
	4338	N	ASP 5	168	56.003	-1.878	81:479	1.00 20.03
MOTA					55.549	-0.848	82.412	1.00 21.98
MOTA	4339	CA	ASP B				82.597	1.00 21.21
MOTA	4340	CB	ASP B		54.030	-0.955		1.00 24.92
MOTA	4341	CG	ASP B	168	53.453	0.186	83.428	
	4342	C	ASP E		56.241	-1.139	83.753	1.00 22.98
ATOM			ASP E		56.447	-2.304	84.091	1.00 18.36
MOTA	4343	0			52.849		82.825	1.00 22.03
MOTA	4344	OD1	ASP E	3 168				1.00 18.43
MOTA	4345	OD2	ASP E	3 168	53.606	0.189	84.676	
ATOM	4346	N	ALA E	3 169	56.581	-0.095	84.514	1.00 15.46
		CA	ALA E		57.263	-0.268	85.807	1.00 18.73
ATOM	4347				57.764	1.084	86.323	1.00 11.98
MOTA	4348	CB	ALA E			-0.940	86.886	1.00 21.82
MOTA	4349	С	ALA E		56.400			1.00 22.51
MOTA	4350	0	ALA E	3 169	56.886	-1.262	87.980	
	4351	N	HIS E	3 170	55.120	-1.134	86.600	1.00 18.75
ATOM			HIS E		54.238	-1.776	87.570	1.00 22.70
MOTA	4352	CA	ura i	2.170	53.716	-3.096	87.015	1.00 22.11
ATOM	4353	С		3 170			85.809	1.00 21.94
ATOM	4354	0	HIS E	B 170	53.536	-3.244		
ATOM	4355	CB	HIS E	B 170	53.050	-0.867	87.927	1.00 21.28
		CG	HIS I		53.449	0.475	88.460	1.00 18.89
MOTA	4356				53.695	1.539	87.626	1.00 19.13
ATOM	4357		HIS I		54.046	2.539	88.412	1.00 19.41
MOTA	4358		HIS !					1.00 19.02
MOTA	4359	CD2	HIS I	B 170	53.660	0.854	89.746	
	4360	NE2	HIS !	B 170	54.042	2.174	89.710	1.00 20.45
ATOM			HIS		53.474	-4.047	87.907	1.00 19.20
MOTA	4361	N			52.961	-5.352	87.519	1.00 21.20
ATOM	4362	CA	HIS I				88.722	1.00 22.00
ATOM	4363	CB	HIS !	B 171	52.964	-6.284		1.00 22.00
ATOM	4364	CG	HTS	B 171	52.541	-7.683	88.400	1.00 24.64
		CD3	HIS	9 171	53.056	-8.594	87.540	1.00 19.19
ATOM	4365	CDZ	ura .	D 171	51.441	-8.279	88.979	1.00 25.71
ATOM	4366	NDI	HIS	B I/I			88.487	1.00 25.30
MOTA	4367	CE1	HIS	B 171	51.295	-9.497	00.407	
ATOM	4368	NE2	HIS	B 171	52.261	-9.713	87.612	1.00 24.71
			UTC	B 171	51.549	-5.306	86.943	1.00 23.91
ATOM	4369	C	11.5	D 171	50.677	-4.620	87.479	1.00 18:93
MOTA	4370	0	HIS	B 171			85.865	1.00 15.36
ATOM	4371	N	CYS	B 172	51.332			1.00 13.30
MOTA	4372	CA	CYS	3 172	50.036		85.207	1.00 20.03
			CVC	B 172	50.240		83.732	1.00 22.46
ATOM	4373	CB	C13	B 172	51.259			1.00 23.49
MOTA	4374	SG	CYS	B 172		7 146		
ATOM	4375	С	CYS	B 172	49.110	-7.146		
ATOM	4376	0	CYS	B 172	48.712			1.00 10.23
	4377	Ŋ	ACD	B 173	48.767	-6.871		
ATOM			300	B 173	47.909		87.928	1.00 18.81
ATOM	4378	CA	ASP.	D 173	47.638			
2 TOM	4379	CB	ASP	B 173	41.030	-1.230		

ATOM	4380	CG	ASP	В	173	46.90	51	-5.871	89.354	1.00 23.40
ATOM	4381		ASP		173	46.50	54	-5.435	90.455	1.00 18.64
ATOM	4382		ASP		173	46.83		-5.231	88.291	1.00 19.24
ATOM	4383	С	ASP		173	46.59		-8.116	87.219	1.00 17.46
ATOM	4384	ō	ASP		173	46.10		-9.272	87.224	1.00 15.53
ATOM	4385	N	GLY			45.9		-7.130	86.580	1.00 13.46
ATOM	4386	CA	GLY		174	44.7		-7.391	85.876	1.00 18.18
ATOM	4387	C	GLY		174	44.9		-8.392	84.741	1.00 17.85
ATOM	4388	ō	GLY			44.10		-9.316	84.583	1.00 18.27
ATOM	4389	N	VAL		175	45.9		-8.214	83.943	1.00 16.14
ATOM	4390	CA	VAL		175	46.20		-9.111	82.829	1.00 17.00
ATOM	4391	СВ	VAL		175	47.30		-8.552	81.902	1.00 27.22
ATOM	4392		VAL			47.5		-9.507	80.731	1.00 19.75
ATOM	4393		VAL		175	46.89		-7.169	81.396	1.00 18.66
ATOM	4394	C	VAL		175			-10.486	83.324	1.00 22.82
ATOM	4395	ō	VAL		175			-11.503	82.754	1.00 18.06
ATOM	4396	N	GLN		176			-10.520	84.378	1.00 21.67
ATOM	4397	CA	GLN		176			-11.798	84.911	1.00 21.55
MOTA	4398	CB	GLN		176			-11.602	86.105	1.00 19.68
ATOM	4399	CG	GLN		176	49.0	88	-12.905	86.862	1.00 20.17
ATOM	4400	CD	GLN	В	176			-12.759	87.996	1.00 25.42
MOTA	4401	OE1	GLN	В	176			-12.442	87.786	1.00 21.56
ATOM	4402		GLN		176			-13.000	89.217	1.00 20.18
ATOM	4403	С	GLN	В	176	46.68	59	-12.630	85.348	1.00 24.78
MOTA	4404	0	GLN	В	176	46.6	18	-13.817	85.057	1.00 22.91
ATOM	4405	N	GLU	В	177	45.7	51	-12.007	86.051	1.00 23.69
MOTA	4406	CA	GLU	В	177	44.5	71	-12.727	86.523	1.00 27.01
MOTA	4407	CB	GLU	В	177	43.70	03	-11.825	87.394	1.00 24.73
ATOM	4408	CG	GLU	В	177	42.63	33	-12.581	98.138	1.00 37.46
MOTA	4409	CD	GLU	В	177			-11.676	88.987	1.00 42.48
ATOM	4410	OE1	GLU	В	177			-11.002	88.432	1.00 44.35
ATOM	4411	OE2	GLU		177			-11.627	90.213	1.00 45.63
ATOM	4412	С	GLU		177			-13.247.		1.00 26.56
ATOM	4413	O	GLU		177			-14.375	85.408	1.00 27.71
ATOM	1414	N	ALA		178			-12.418	84.344	1.00 24.58
MOTA	4415	CA	ALA		178			-12.775	83.174	1.00 25.86
MOTA	4416	CB	ALA		178			-11.628	82.171	1.00 24.20
ATOM	4417	С	ALA		178			-14.054	82.485	1.00 25.72
MOTA	4418	0	ALA		178			-14.838	82.036	1.00 22.38
ATOM	4419	N	PHE		179			-14.282	82.395	1.00 27.19
ATOM	4420	CA	PHE		179			-15.489	81.703	1.00 27.05
ATOM	4421	CB	PHE					-15.086	80.418	1.00 25.22 1.00 20.36
ATOM	4422	CG	PHE		179			-14.020	79.644	1.00 25.23
ATOM	4423		PHE		179			-12.687 -14.332	79.735	1.00 25.23
ATOM	4424	CD2 CE1						-14.332	78.902	1.00 19.22
ATOM	4425 4426	CEI	PHE	5	170			-13.315	78.272	1.00 19.25
ATOM ATOM	4427	CZ	PHE	B	179			-12.001	78.374	1.00 25.64
ATOM	4428	C	PHE					-16.398	82.556	1.00 23.50
ATOM	1429	o	PHE					-17.182	82.038	1.00 18.26
ATOM	1430	Ŋ	TYR					-16.313		1.00 23.24
ATOM	4431	CA	TYR					-17.106	84.799	1.00 26.76
ATOM	4432	CB	TYR					-16.665	86.231	1.00 25.72
ATOM	4433	CG	TYR					-16.969	87.247	1.00 29.66
MOTA	4434		TYR					-17.942	88.237	1.00 27.07
ATOM	4435		TYR					-18.222	89.170	1.00 30.08
MOTA	4436	CD2	TYR					-16.283	87.216	1.00 29.68
ATCM	4437	CE2	TYR					-16.552	88.139	1.00 30.99
ATOM	4438	CZ	TYR					-17.521	89.112	1.00 33.16
ATOM	1439	OH	TYR					-17.791	90.006	1.00 28.47
ATOM	4440	C	TYR					-18.619	84.649	1.00 29.13
ATOM	1441	Ö	TYR		180			-19.416	84.922	1.00 23.43
ATOM	4442	N	ASP	В	181			-19.021	84.190	1.00 25.67
ATOM	4443	CA	ASP	В	181	44.7	84	-20.445	84.075	1.00 28.28
ATOM	1444	CB	ASP					-20.759	84.757	1.00 32.13
ATCM	1445	CG	ASP	В	181	42.2	47	-20.410	83.890	1.00 36.12

4446

OD1 ASP B 181

184/263 **Figure 18-68**

42.202 -19.300 83.329 1.00 41.04

MOTA 41.334 -21.249 83.782 1.00 44.36 4447 OD2 ASP B 181 MOTA 82.664 1.00 32.41 44.773 -21.018 ASP B 181 4448 С ATOM 1.00 31.67 1.00 29.24 44.246 -22.115 45.345 -20.302 ASP B 181 82.444 4449 0 ATOM 81.702 N THR B 182 4450 ATOM 45.363 -20.823 44.468 -20.008 1.00 30.57 80.340 4451 CA THR B 182 ATOM 79.397 1.00 30.03 CB THR B 182 OG1 THR B 182 4452 ATOM 44.516 -20.598 78.095 1.00 28.22 ATOM 4453 1.00 26.55 44.947 -18.561 79.310 CG2 THR B 182 4454. ATOM 46.759 -20.870 79.740 1.00 32.31 4455 THR B 182 C ATOM 47.591 -20.007 80.008 1.00 27.27 THR B 182 4456 0 MOTA 46.999 -21.878 48.296 -22.049 1.00 29.94 78.909 4457 N ASP B 183 ATOM 1.00 31.40 78.273 ASP B 183 4458 CA ATOM 48.648 -23.536 1.00 33.36 78.228 **ASP B 183** 4459 CB ATOM 47.718 -24.319 77.328 1.00 33.33 ASP B 183 MOTA 4460 CG 77.287 1.00 28.06 OD1 ASP B 183 46.513 -23.988 4461 ATOM 1.00 38.19 1.00 31.14 48.186 -25.271 76.675 ATOM 4462 OD2 ASP B 183 48.321 -21.462 49.332 -21.557 47.217 -20.852 76.864 ASP B 183 4463 С ATOM 1.00 28.74 76.168 ASP B 183 4464 0 ATOM 76.446 1.00 25.34 GLN B 184 4465 N MOTA GLN B 184 47.151 -20.251 75.118 1.00 28.59 MOTA 4466 CA 45.712 -20.256 74.581 1.00 26.84 GLN B 184 4467 CB ATOM 1.00 34.86 1.00 32.27 45.060 -21.632 74.529 GLN B 184 4468 CG ATOM 43.760 -21.647 42.897 -20.789 43.611 -22.641 73.736 4469 CD GLN B 184 ATOM 1.00 35.43 OE1 GLN B 184 73.912 4470 MOTA 72.870 1.00 28.92 NE2 GLN B 184 C GLN B 184 4471 MOTA 47.672 -18.817 75.175 1.00 27.28 ATOM 4472 1.00 29.70 GLN B 184 47.871 -18.171 74.148 4473 ATOM 0 76.386 1.00 27.64 47.900 ~18.325 4474 N VAL B 185 ATOM 48.400 -16.972 47.304 -16.039 47.879 -14.642 1.00 26.26 1.00 22.85 76.575 CA VAL B 185 4475 MOTA 77.145 CB VAL B 185 4476 MOTA 77.395 1.00 23.10 CG1 VAL B 185 4477 MOTA 1.00 21.67 CG2 VAL B 185 46.136 -15.967 76.191 4478 MOTA 49.570 -16.964 49.456 -17.469 50.696 -16.403 51.868 -16.301 77.547 1.00 27.01 VAL B 185 4479 MOTA Ċ 78.663 1.00 23.75 VAL B 185 4480 ATOM 1.00 22.02 77.115 PHE B 186 MOTA 4481 N 77.978 1.00 21.83 PHE B 186 4482 CA ATOM 53.142 -16.763 77.252 1.00 17.02 PHE B 186 4483 MOTA CВ 1.00 24.84 54.336 -16.921 78.170 PHE B 186 4484 CG MOTA 1.00 22.70 1.00 20.26 78.580 54.756 -18.189 4485 CD1 PHE B 186 MOTA 55.004 -15.805 55.819 -18.338 56.071 -15.941 78.670 CD2 PHE B 186 4486 ATOM 1.00 21.47 79.471 CE1 PHE B 186 4487 MOTA 79.563 1.00 20.01 CE2 PHE B 186 4488 ATOM 79.968 1.00 17.84 56.481 -17.206 CZ PHE B 186 4489 MOTA 78.368 1.00 18.12 PHE B 186 52.032 -14.827 4490 С ATOM 1.00 15.92 77.508 52.038 -13.946 PHE B 186 4491 ATO: 0 52.161 -14.565 52.348 -13.208 51.282 -12.839 1.00 18.06 79.661 VAL B 187 4492 N ATO.4 1.00 17.67 80.153 4493 CA VAL B 187 ATOr: 1.00 22.85 81.225 4494 CB VAL B 187 ATOM 51.608 -11.473 1.00 24.08 81.840 4495 CG1 VAL B 187 MOTA 80.598. 1.00 18.82 49.882 -12.808 CG2 VAL B 187 1496 MOTA 80.788 1.00 18.32 53.735 -13.060 4497 VAL B 187 С MOTA 81.707 1.00 18.82 54.092 -13.807 VAL B 187 1498 ATOM 0 1.00 14.70 54.503 -12.103 LEU B 188 80.282 4499 N ATCM 55.832 -11.789 80.798 1.00 18.84 CA LEU B 188 4500 MOTA 56.900 -11.948 79.716 1.00 18.64 LEU B 188 4501 ATCM CB 1.00 21.23 80.082 58.230 -11.277 CG LEU B 188 4502 ATOM 1.00 18.55 81.395 58.769 -11.832 CD1 LEU B 188 4503 ATOM 78.957 1.00 20.49 59.227 -11.489 CD2 LEU B 188 4504 ATOM 1.00 22.14 81.280 55.836 -10.339 LEU B 188 4505 C ATCM 1.00 19.96 80.517 LEU 3 188 SER B 189 55.527 -9.410 4506 0 ATOM 1.00 21.08 82.540 56.187 -10.133 4507 N ATOM 1.00 21.85 83.061 56.203 -3.782 SER B 189 4508 ÇA - ATOM 83.908 1.00 25.95 SER B 189 54.956 -8.543 4509 CB ATOM 84.475 1.00 21.91 83.883 1.00 23.62 54.988 -7.252 4510 OG SER B 189 ATCM 57.423 -8.420 SER B 189 4511 C ATCM

ATOM	4512	o	SER B	189		57.829	-9.174	84.766	1.00 18.61
ATOM	4513	N	LEU B			58.020	-7.269	83.569	1.00 20.33
ATOM	4514	CA	LEU B			59.149	-6.767	84.347	1.00 21.85
	4515	CB	LEU B			60.278	-6.226	83.473	1.00 22.85
MOTA	4516	CG	LEU B			60.964	-7.089	82.413	1.00 32.59
ATOM									
MOTA	4517	CD1				62.337	-6.479	82.140	1.00 29.27
ATOM	4518		LEU B			61.136	-8.511	82.379	1.00 31.98
MOTA	4519	С	LEU B			58.505	-5.613	85.085	1.00 21.28
MOTA	4520	0	LEU B			57.695	-4.897	84.501	1.00 15.72
ATCM	4521		HIS B			58.857	-5.421	86.351	1.00 18.16
ATOM	4522	CA	HIS B			58.249	-4.357	87.145	1.00 17.46
MOŢA	4523	CB	HIS B			56.759	-4.690	87.369	1.00 16.00
ATOM	4524	CG	HIS B		•	56.517	-6.085	87.880	1.00 22.14
ATOM	4525		HIS B			56.341	-6.551	89.143	1.00 12.25
MOTA	4526	ND1	HIS B			56.372	-7.179	87.049	1.00 18.02
MOTA	4527	CE1	HIS B			56.119	-8.256	87.775	1.00 8.17
ATOM	4528	NE2	HIS B	191		56.094	-7.902	89.049	1.00 19.79
MOTA	4529	С	HIS B			58.945	-4.197	88.484	1.00 17.41
ATOM	4530	0	HIS B	191		59.769	-5.029	88.867	1.00 18.74
MOTA	4531	N	GLN B	192		58.618	-3.114	89.182	1.00 18.20
MOTA	4532	CA	GLN B			59.173	-2.854	90.502	1.00 18.41
ATOM	4533	CB	GLN B	192		58.690	-1.500	91.034	1.00 20.71
ATOM	4534	CG	GLN B	192		58.871	-0.334	90.072	1.00 21.49
ATOM	4535	CD	GLN B	192		58.226	0.930	90.594	1.00 20.65
ATOM	4536	OE1	GLN B	192		58.775	1.615	91.459	1.00 21.52
MOTA	4537	NE2	GLN B	192		57.029	1.226	90.098	1.00 15.10
ATOM	4538	С	GLN B	192		58.608	-3.945	91.395	1.00 17.55
ATOM	4539	0	GLN B	192		57.415	-4.256	91.320	1.00 17.48
ATOM	4540	Ŋ	SER B	193		59.447	-4.522	92.240	1.00 15.71
ATOM	4541	CA	SER B	193		58.986	-5.574	93.143	1.00 20.58
ATOM	4542	CB	SER B	193		60.093	-5.963	94.120	1.00 20.71
ATOM	4543	OG	SER B	193		59.571	-6.804	95.138	1.00 22.55
MOTA	4544	С	SER B	193		57.774	-5.112	93.947	1.00 21.81
MOTA	4545	J	SER B	193		57.769	-4:003	94.486	1.00 20.82
MOTA	4546	N	PRO B	194		56.745	-5.967	94.063	1.00 21.80
ATOM	4547	CD	PRO B	194		56.648	-7.331	93.524	1.00 24.27
ATOM	4548	CA	PRO B	194		55.524	-5.643	94.812	1.00 23.58
MOTA	4549	CB	PRO B	194		54.678	-6.909	94.642	1.00 22.98
ATOM	4550	CG	PRO B	194		55.168	-7.458	93.317	1.00 26.35
MOTA	4551	С	PRO B			55.841	-5.366	96.283	1.00 25.79
ATOM	4552	O	PRO B	194		55.009	-4.831	97.022	1.00 27.26
ATOM	4553	:1	GLU B	195		57.045	-5.736	96.710	1.00 23.20
ATOM	4554	CA	GLU B			57.428	-5.514	98.093	1.00 29.56
ATOM	4555	CB	GLU B	195		58.816	-6.090	98.379	1.00 32.38
ATOM	4556	CG	GLU B			58.940	-7.567	98.049	1.00 45.25
ATOM	4557	CD	GLU B			60.206	-8.189	98.613	1.00 50.44
MOTA	4558		GLU B			61.290	-7.580	98.471	:.00 50.51
MOTA	4559	OE2				60.118	-9.297	99.184	1.00 49.77
ATOM	4560	C	GLU B			57.414 57.095	-4.035 -3.659	98.425 99.551	1.00 25.11 1.00 29.05
ATOM	4561	0	GLU B			57.729	-3.191	97.445	1.00 23.03
ATOM	4562	N				57.743	-1.750	97.696	1.00 22.46
ATOM	4563 4564	CA	TYR B			59.188	-1.223	97.668	1.00 22.40
ATCM	.4565	CB CG	TYR B			59.855	-1.234	96.301	1.00 24.17
ATOM	4566		TYR B			59.639	-0.203	95.385	1.00 20.87
ATOM		CE1	TYR B			60.229	-0.222	94.118	1.00 20.87
ATOM	4567		TYR B			60.684	-2.289	95.916	1.00 24.63
ATOM	4568	CD2	TYR B			61.276	-2.318	94.648	1.00 24.83
ATOM	4569		TYR B		-	61.042	-2.318	93.756	1.00 23.01
ATOM	4570	CZ	TYR B			61.592	-1.328	92.492	1.00 23.01
ATCM	4571	OH	TYR B			56.896	-0.938	96.725	1.00 13.54
ATOM	4572 4573	C	TYR B			56.779	0.275	96.869	1.00 17.53
ATOM		O N	ALA B			56.293	-1.589	95.740	1.00 22.11
ATOM	4574	CA	ALA B			55.503	-0.829	94.779	1.00 24.28
ATOM	4575 4576	CB	ALA B			56.310	-0.616	93.513	1.00 23.03
ATOM	4577	C	ALA B			54.153	-1.412	94.413	1.00 23.80
atom	47//	_	מ איירי			74.70	1.714		1.00 22.00

186/263

ATOM ATOM ATOM ATOM	4578 4579 4580 4581	N I CA I CB I	ALA B PHE B PHE B PHE B	198 198 198	53.910 53.278 51.956 51.152	-2.609 -0.541 -0.950 0.263	93.932 93.495 93.035	1.00 17.67 1.00 26.40 1.00 28.19 1.00 29.51 1.00 29.50
MOTA	4582		PHE B		49.721	-0.050	92.711	1.00 29.50 1.00 32.77
MOTA	4583			198	48.732	0.100 -0.533	93.674 91.455	1.00 25.82
MOTA	4584			198	49.367 47.410	-0.223	93.394	1.00 36.70
MOTA	4585	CE1		198	48.050	-0.858	91.170	1.00 29.29
MOTA	4586		PHE B. PHE B	198	47.071	-0.703	92.141	1.00 33:05
ATOM	4587			198	52.170	-1.858	92.284	1.00 28.28
ATOM	4588 4589			198	53.045	-1.602	91.456	1.00 27.15
MOTA MOTA	4590			199	51.407	-2.952	92.185	1.00 31.37
ATOM	4591	CD	PRO B	199	51.440	-3.887	91.045	1.00 37.07
ATOM	4592	CA		199	50.386	-3.369	93.144	1.00 35.32 1.00 33.88
MOTA	4593		PRO B		49.545	-4.328 -5.068	92.321 91.578	1.00 35.00
MOTA	4594		PRO B		50.641 51.241	-4.082	94.184	1.00 36.93
ATOM	4595	C	PRO B		52.308	-4.603	93.860	1.00 50.93
ATOM	4596 4597	0 N	PHE B		50.804	-4.127	95.422	1.00 37.04
MOTA	4598	CA	PHE B	200	51.644	-4.763	96.421	1.00 30.13
MOTA MOTA	4599	CB	PHE B	200	51.547	-3.968	97.723	1.00 28.70
ATOM	4600	CG	PHE B	200	51.760	-2.485	97.543	1.00 29.98
ATOM	4601	CD1	PHE B		50.717	-1.660	97.137	1.00 28.92 1.00 23.60
ATOM	4602		PHE B		53.016	-1.919 -0.289	97.746 96.938	1.00 27.63
MOTA	4603	CE1	PHE B		50.922 53.229	-0.269	97.547	1.00 23.56
ATOM	4604	CE2	PHE B	200	52.182	0.260	97.143	1.00 28.37
ATOM	4605 4606	CZ C	PHE B	200	51.296	-6.227	96.658	1.00 25.51
MOTA	4607	0	PHE B	200	52.112	-6.984	97.167	1.00 20.92
MOTA MOTA	4608	N	GLU B	201	-	-6.618	96.252	1.00 27.41
ATOM	4609	CA	GLU B	201	49.576	-7.972	96.454	1.00 31.98 1.00 31.57
ATOM	4610	CB	GLU B		48.056	-7.928	96.487	1.00 31.37
ATOM	4611	CG	GLU B	201	47.486	-6:935 -6:853	97.449 97.316	1.00 40.31
ATOM	4612	CD.	GLU B		45.987 45.332	-7.902	97.500	1.00 38.90
ATOM	4613	OE1	GLU B	201	45.475	-5.751	97.019	1.00 35.04
MOTA	4614 4615	C	GLU B	201	49.979	-9.018	95.422	1.00 30.83
MOTA ATOM	4616	Ö	GLU E		49.901	-10.219	95.690	1.00 26.34
ATOM	4617	N	LYS E	202	50.362	-8.573	94.234	1.00 24.95 1.00 22.79
ATOM	4618	CA	LYS E	202	50.764	-9.501	93.195 92.258	1.00 25.12
ATOM	4619	CB	LYS E	202	49.588	-9.773 -10.523	93.000	1.00 35.38
ATOM	4620	CG	LYS E	202	40.404	-11.099	92.103	1.00 38.67
MOTA	4621	CD	LYS E	202	46.498	-11.998	92.903	1.00 40.98
ATOM	4622 4623	CE NZ	LYS E	3 202	45.491	-12.659	92.028	1.00 46.65
ATOM ATOM	4624	C	LYS E	3 202	51.975	-9.007	92.435	1.00 24.62
MOTA	4625	Ö	LYS E	3 202	52.355	-7.838	92.549	1.00 21.83 1.00 17.60
ATOM	4626	11	GLY :		52.598	-9.910	91.684 90.928	1.00 17.80
MOTA	4627	CA	GLY I	3 203	53.779	-9.545 -10.297	91.396	1.00 20.36
MOTA	4628	C	GLY I	3 203		-10.237	90.888	1.00 23.83
ATOM	4629	0	GLY E	3 203		-11.201	92.358	1.00 24.82
MOTA	4630	N	PHE I	3 204	55.992	-11.957	92.859	1.00 24.24
ATOM	4631 4632	CA CB	PHE 1	B 204	55.690	-12.567	94.236	1.00 22.72
ATOM ATOM	4632	CG	PHE	B 204	55.485	-11.549	95.322	1.00 25.26
ATOM	4634	CD1	PHE !	B 204	54.235	-10.977	95.535	1.00 23.80 1.00 20.25
ATOM	4635	CD2	PHE	3 204	56.551	-11.159	96.133	
ATOM	4636	CEI	PHE :	3 204		-10.036 -10.221		
ATOM	4637			3 204	55.124			1.00 25.54
ATOM	4638			B 204 B 204		-13.057		1.00 25.86
ATCM	4639		PUE	B 204	55.613			1.00 20.65
MOTA	4640 4641		LEU	B 205	57.676	-13.449	91.986	
MOTA MOTA	4642		LEU	B 205	58.233	-14.472	91.114	
ATOM	1643		LEU	B 205	59.723	-14.637	91.413	1.00 34.01

Figure 18-71

60.495 -15.669 90.592 1.00 34.12 MOTA 4644 CG LEU 3 205 60.356 -15.382 89.109 1.00 32.95 CD1 LEU 3 205 MOTA 4645 CD2 LEU 3 205 61.957 ~15.629 91.005 1.00 36.49 MOTA 4646 LEU 3 205 57.535 -15.827 91.205 1.00 30.51 MOTA 4647 С 57.467 -16.562 90.220 1.00 25.89 LEU 3 205 ATOM 4648 0 92.382 1.00 30.43 57.010 -16.147 GLU B 206 4649 ATOM N 1.00 30.64 1.00 34.77 56.338 -17.423 92.605 GLU 3 206 ATOM 4650 CA 56.025 -17.601 57.227 -17.512 CB GLU B 206 94.093 4651 ATOM 1.00 42.50 MOTA 4652 CG GLU B 206 95.033 GLU 3 206 57.718 -16.084 95.270 1.00 45.76 MOTA 4653 CD OE1 GLU B 206 58.228 -15.438 94.333 1.00 42.62 4654 MOTA OE2 GLU B 206 57.585 -15.602 96.413 1.00 50.22 4655 MOTA 55.045 -17.587 1.00 31.13 GLU 3 206 91.811 4656 ATOM С GLU B 206 54.607 -18.708 91.563 1.00 28.18 ATOM 4657 0 54.430 -16.472 53.178 -16.499 GLU B 207 91.425 1.00 25.16 MOTA 4658 N 90.664 1.00 28.78 **GLU B 207** 4659 MOTA CA 90.695 1.00 30.76 52.546 -15.107 GLU B 207 MOTA 4660 CB GLU B 207 52.121 -14.659 92.093 1.00 29.39 CG MOTA 4661 52.057 -13.151 92.230 1.00 27.87 4662 GLU B 207 MOTA CD 91.261 OE1 GLU B 207 51.656 -12.477 1.00 24.38 4663 MOTA OE2 GLU B 207 C GLU B 207 4664 52.389 -12.636 93.316 1.00 25.36 MOTA 1.00 29.48 53.453 -16.922 89.224 MOTA 4665 GLU B 207 53.658 -16.077 88.351 1.00 27.48 MOTA 4666 0 53.442 -18.230 88.976 1.00 26.67 4667 ILE B 208 MOTA N 1.00 32.60 53.735 -18.754 87.646 ILE B 208 MOTA 4668 CA 4669 CB ILE B 208 54.789 -19.877 87.740 1.00 34.26 MOTA CG2 ILE 3 208 55.239 -20.296 86.352 1.00 41.65 4670 MOTA 1.00 36.07 56.008 -19.404 88.532 4671 CG1 ILE B 208 MOTA CD1 ILE B 208 56.814 -18.338 87.851 1.00 45.18 4672 ATOM 4673 ° C 52.522 -19.289 86.870 1.00 32.26 ILE B 208 ATOM 52.668 -19.799 85.759 1.00 27.43 ATOM 4674 ILE B 208 GLY B 209 GLY B 209 51.328 -19.165 87.442 1.00 32.60 MOTA 4675 N 1.00 35.07 50.139 -19.652 86.760 ATOM 4676 CA GLY B 209 . 49.565 -20.892 1.00 36.19 87.420 ATOM 4677 С 4678 **GLY B 209** 50.230 -21.524 88.235 1.00 31.61 MOTA 0 1.00 36.98 48.335 -21.245 87.066 4679 GLU B 210 ATOM N 1.00 40.60 1.00 37.98 47.677 -22.412 GLU B 210 87.647 4680 MOTA CA 46.633 -21.964 45.446 -21.234 GLU B 210 GLU B 210 MOTA 88.672 4681 CB 1.00 42.78 88.058 4682 CG ATOM 89.098 GLU 3 210 44.470 -20.717 1.00 48.41 4683 CD ATOM OE1 GLU B 210 43.400 -20.202 88.709 1.00 51.03 4684 MOTA 44.778 -20.814 90.306 1.00 49.90 ATOM 4685 OE2 GLU B 210 GLU B 210 46.996 -23.248 86.564 1.00 39.48 ATOM 4686 C 46.709 -22.751 GLU B 210 GLY B 211 1.00 33.65 85.471 ATOM 4687 0 1.00 39.18 46.736 -24.515 86.876 ATOM 4688 N GLT B 211 46.087 -25.399 85.923 1.00 38.43 ATOM 4689 CA 46.877 -25.500 84.637 1.00 40.29 MOTA 4690 С GLT B 211 48.101 -25.610 46.187 -25.458 84.666 1.00 39.39 GLY B 211 ATOM 4691 0 LYS B 212 1.00 40.90 MOTA 4692 N 83.504 46.864 -25.538 1.00 43.53 82.219 ATOM 4693 CA LYS B 212 45.842 -25.548 81.080 1.00 47.87 LYS B 212 MOTA 4694 CB 44.795 -26.665 81.144 1.00 53.09 LYS B 212 MOTA 4695 CG 45.398 -28.076 81.130 1.00 58.61 4696 LYS B 212 ATOM CD 82.452 46.069 -28.454 1.00 59.78 ATOM 4697 CE LYS B 212 LYS B 212 46.670 -29.825 82.420 1.00 62.17 ATOM NZ 4698 47.823 -24.363 1.00 38.84 LYS B 212 82.040 MOTA 4699 C 48.797 -24.457 81.295 1.00 40.33 LYS B 212 ATOM 4700 0 47.543 -23.262 82.731 1.00 37.20 GLY B 213 ATOM 4701 N 1.00 34.66 82.627 4702 GLY B 213 48.384 -22.081 ATOM CA 83.505 1.00 37.09 49.625 -22.107 4703 GLY B 213 ATOM C 1.00 25.85 1.00 33.33 50.425 -21.165 83.489 GLY B 213 ATOM 4704 0 49.794 -23.180 LYS B 214 84.273 4705 N ATOM 1.00 37.90 50.953 -23.297 85.148 ATOM 4706 CA LYS B 214 50.886 -24.598 85.954 1.00 38.89 LYS B 214 ATCM 1707 CB 86.938 1.00 39.29 CG LYS B 214 52.032 -24.786 4708 ATOM 51.876 -26.094 87.704 1.00 43.60 4709 CD LYS B 214 ATCM



188/263

ATOM	4710	CE LYS B	214	53.047	-26.334	88.640	1.00 47.36
	4711	NZ LYS B		53.165	-25.264	89.666	1.00 54.03
MOTA					-23.275	84.291	1.00 34.16
ATOM	4712				-24.136	83.438	1.00 34.70
ATOM	4713	O LYS B				84.523	1.00 33.58
MOTA	4714	N GLY B			-22.279	04.323	
MOTA	4715	CA GLY B	215		-22.152	83.743	1.00 28.27
MOTA	4716	C GLY B	215	54.104	-21.155	82.605	1.00 31.02
ATOM	4717	O GLY B		55.033	-20.911	81.833	1.00 23.68
	4718	N TYR B		52.918	-20.564	82.493	1.00 22.45
ATOM					-19.605	81.426	1.00 24.03
ATOM	4719				-20.013	80.603	1.00 17.60
MOTA	4720		216 .				1.00 25.96
MOTA	4721		216		-21.291	79.806	
ATOM	4722	CD1 TYR B	216		-22.538	80.435	1.00 21.41
ATOM	4723	CE1 TYR B	216	51.988	-23.704	79.729	1.00 23.78
ATOM	4724	CD2 TYR B	216		-21.242	78.439	1.00 19.62
ATOM	4725	CE2 TYR B	216	52:269	-22.402	77.72-2	1.00 26.39
	4726	CZ TYR B			-23.630	78.379	1.00 29.35
ATOM		OH TYR B		-	-24.782	77.690	1.00 27.75
ATOM	4727-				-18.153	81.884	1.00 24.53
ATOM	4728	C TYR B			-17.298		1.00 18.99
MOTA	4729	O TYR B				81.159	
MOTA	4730	N ASN B			-17.886	83.098	1.00 21.41
ATOM	4731	CA ASN B			-16.534	83.642	1.00 21.23
ATOM	4732	CB ASN B	217		-16.325	84.669	1.00 16.78
ATOM	4733	CG ASN B	217	51.882	-14.889	85.162	1.00 22.07
ATOM	4734	OD1 ASN B			-14.521	86.163	1.00 23.13
	4735	ND2 ASN B			-14.058	84.435	1.00 19.26
MOTA					-16.339	84.291	1.00 19.40
MOTA	4736				-17.145	85.124	1.00 19.28
ATOM	4737	O ASN B			-15.273	83.905	1.00 18.65
ATOM	4738	N LEU B					1.00 16.41
MOTA	4739	CA LEU B			-15.004	84.444	
MOTA	4740	CB LEU B	218		-15.244	83.368	1.00 18.29
ATOM	4741	CG LEU B	218		-15.872	83.782	1.00 28.15
ATOM	4742	CD1 LEU B	218	59.873	-15.563	82.695	1.00 20.50
ATOM	4743	CD2 LEU B		59.332	-15.348	85.116	1.00 22.53
ATOM	4744	C LEU B		56.595	-13.562	84.926	1.00 17.89
	4745	O LEU B			-12.627	84.128	1.30 14.48
MOTA					-13.395	86.219	1.00 14.09
MOTA	4746				-12.075	86.821	1.00 18.41
ATOM	4747	CA ASN B			-11.922	88.111	1.00 14.64
MOTA	4748	CB ASN B					1.00 27.12
ATOM	4749	CG ASN B			-11.898	87.868	1.00 27.12
ATOM	4750	OD1 ASN B			-11.332	86.880	
ATOM	4751	ND2 ASN B		53.982		88.787	1.00 23.62
ATOM	4752	C ASN B	219		-11.843	87.172	1.00 20.39
ATOM	4753	O ASN B	219	59.115	-12.672	87.841	1.00 20.41
ATOM	4754	N ILE B		59.056	-10.717	86.729	1.00 15.11
	4755	CA ILE B	220	60.441	-10.394	87.033	1.00 17.16
ATOM	4756	CB ILE B			-10.083	85.740	1.00 20.78
ATOM		CG2 ILE B		62.736		86.094	1.00 18.08
ATOM	4757			61.138		84.748	1.00 17.62
ATOM	4758				-12.590	85.273	1.00 20.72
ATOM	4759	CD1 ILE B				87.947	1.00 21.17
MOTA	4760	C ILE B		60.475			1.00 16.03
ATOM	4761	O ILE B		60.565		87.470	1 00 10 74
ATOM	4762	N PRO B	221	60.367		89.274	1.00 21.74
MOTA	4763	CD PRO B	221	60.135			1.00 22.96
ATOM	4764	CA PRO B	221	60.394		90.213	1.00 19.16
	4765	CB PRO B		59.947	-8.869	91.523	1.00 19.40
ATOM	4766	CG PRO B		60.564		91.407	1.00 23.02
ATOM				61.799		90.289	1.00 22.42
ATOM	4767			62.780		90.425	1.00 20.71
ATOM	4768	O PRO B				90.202	1.00 22.74
MOTA	4769	N LEU B		61.899			1.00 21.18
ATOM	4770	CA LEU B		63.198		90.223	
ATOM	4771	CB LEU B		63.453		88.850	
ATCM	4772	CG LEU B		63.467		87.721	1.00 20.26
ATOM	4773	CD1 LEU B	222	63.453		86.361	1.00 20.00
ATCM	4774	CD2 LEU B	222	64.696		87.881	1.00 21.93
	4775	C LEU E	222	63.335	-4.616	91.353	1.00 20.04
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189/263

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ATOM	4776	0	LEU E	222		62.350	-4.030	91.806	1.00 17.58
ATOM	4777	N	PRO E			64.571	-4.394	91.830	1.00 19.48
MOTA	4778	CD	PRO E			65.806	-5.072	91.400	1.00 16.80
MOTA	4779	CA	PRO E			64.873	-3.454	92.915	1.00 20.38
ATOM	4780	CB	PRO E			66.274	-3.881	93.327	1.00 26.11
ATOM	4781	CC	PRO E			66.884	-4.161	91.973	1.00 19.74
MOTA	4782	C	PRO E			64.818 64.815	-1.971	92.553	1.00 21.39
ATOM	4783	C N	LYS E			64.798	-1.598 -1.142	91.380 93.589	1.00 17.16 1.00 20.65
MOTA NOTA	4784 4785	CA.	LYS B			64.755	0.311	93.462	1.00 20.03
ATOM	4786	CB	LYS E			64.577	0.938	94.844	1.00 27.00
ATOM	4787	CG	LYS .E			63.415	0.389	95.651	1.00 37.72
ATOM	4788	CD	LYS B		•	63.541	0.833	97.101	1.00 42.06
ATOM	4789	CE	LYS B	224		62.420	0.276	97.955	1.00 45.18
MOTA	4790	NZ	LYS E	224		62.645	0.570	99.399	1.00 46.30
MOTA	4791	С	LYS E			66.071	0.808	92.874	1.00 27.01
ATOM	4792	0	LYS E			67.098	0.139	92.995	1.00 21.54
ATOM	4793	N	GLY E			66.038	1.989	92.259	1.00 22.66
ATOM	4794	CA	GLY E			67.239	2.565	91.669	1.00 25.67
MOTA	4795 4796	O	GLY E			67.768 68.917	1.809 1.975	90.459	1.00 24.95 1.00 26.83
ATOM ATOM	4797	N	LEU E			66.926	0.980	90.069 89.855	1.00 26.83 1.00 21.79
ATOM	4798	CA	LEU B			67.319	0.180	88.692	1.00 22.31
ATOM	4799	CB	LEU B			66.067	-0.473	88.099	1.00 23.29
ATOM	4800	CG	LEU B			66.238	-1.605	87.091	1.00 26.71
ATOM	4801	CD1	LEU B	226		66.846	-2.804	87.813	1.00 26.44
ATOM	4802		LEU B			64.877	-1.997	86.508	1.00 22.96
ATOM	4803	С	LEU B			68.008	1.017	87.603	1.00 22.66
ATOM	4804	0	LEU B			67.517	2.087	87.250	1.00 20.19
MOTA	4805	N	ASN E			69.134	0.549	87.060	1.00 15.52
MOTA	4806 4807	CA CB	ASN B			69.794 71.304	1.317 1.474	85.998 86.270	1.00 19.49 1.00 20.43
ATOM ATOM	4808	CG	ASN B			72.062	0.161	86.206	1.00 28.97
ATOM	4809		ASN B			72.015	-0.546	85.199	1.00 24.30
ATOM	4810		ASN B			72.786	-0.160	87.276	1.00 20.88
ATOM	4811	С	ASN B			69.548	0.671	84.630	1.00 21.26
ATOM	4812	0	ASN B			69.004	-0.432	84.555	1.00 18.90
ATOM	4813	11	ASP B			69.949	1.347	83.552	1.00 20.98
MOTA	4814	CA	ASP 5			69.720	0.817	82.208	1.00 22.51
ATOM	4815	CB	ASP B			70.270 69.596	1.753	31.126	1.00 23.46 1.00 26.12
ATOM ATOM	4816 4817	CG	ASP B			68.387	3.113 3.193	81.119 81.415	1.00 26.12 1.00 26.75
ATOM	4818		ASP B			70.276	4.101	80.773	1.00 30.22
ATOM	4819	c	ASP B			70.286	-0.573	81.952	1.00 23.49
ATOM	4820	Ō	ASP B			69.651	-1.390	81.288	1.00 19.31
ATCM	4821	N	ASN B	229		71.484	-0.836	82.453	1.00 22.24
ATOM	4822	CA	ASN B			72.111	-2.135	82.250	1.00 23.30
ATCM	4823	CB	ASN B			73.562	-2.101	82.737	1.00 20.99
ATCM	4824	CG	ASN 3			74.441	-1.237	81.859	1.00 25.71
ATOM	4825		ASN B			74.644	-1.538	80.678	1.00 26.40
ATCM	4826 4827		ASN B			74.955 71.341	-0.151 -3.252	82.417 82.943	1.00 27.44 1.00 23.74
atom atom	÷828	0	ASN B			71.207	-4.346	82.402	1.00 20.51
ATOM	4829	3	GLU B			70.832	-2.976	84.139	1.00 23.06
MOTA	4830	CA	GLU B			70.069	-3.977	84.874	1.00 23.01
ATOM	4831	CB	GLU 3			69.799	-3.480	86.297	1.00 24.73
MOTA	4832	CG	GLU 3	230		71.069	-3.201	87.087	1.00 27.28
ATOM	4833	CD	GLU 3		٠.	70.792	-2.649	88.470	1.00 27.47
ATCM	4834	0E1				70.086	-1.625	88.569	1.00 27.87
ATOM	4835	OE2	GLU 3			71.286	-3.232	89.455	1.00 26.79
ATOM	4836	С	GLU B			68.749	-4.281	84.146	1.00 24.25
ATCM	4837	0	GLU B	221		68.347 68.391	-5.445 -3.242	84.022	1.00 15.89 1.00 21.46
ATOM	4838 4839	N CA	PHE B			66.814	-3.242 -3.429	83.637 82.933	1.00 21.46 1.00 22.84
atom atom	4840	CB	PHE B			66.210	-2.079	82.529	1.00 23.96
ATOM	4841	CG	PHE B			64.803	-2.182	81.975	1.00 26.13
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ATOM	4842	CD1	PHE E	3 231	63.738	-2.514	82.805	1.00 25.00
			PHE E		64.550	-1.956	80.627	1.00 22.93
MOTA	4843							
MOTA	4844	CEl	PHE E	3 231	62.440	-2.618	82.304	1.00 25.03
ATOM	4845	CE2	PHE E	3 231	63.250	-2.059	80.114	1.00 27.46
		CZ	PHE F		62.196	-2.390	80.957	1.00 20.25
MOTA	4846							
ATOM	4847	С	PHE 5	3 231	66.978	-4.288	81.677	1.00 23.14
MOTA	4848	0	PHE E	3 231	66.221	-5.239	81.464	1.00 20.02
					67,963	-3.952	80.845	1.00 22.02
ATOM	4849	N	LEU E					
ATOM	4850	CA	LEU E	3 232	68.200	-4.697	79.614	1.00 19.97
ATOM	4851	CB	LEU R	3 232	69.192	-3.942	78.734	1.00 24.99
			LEU I		68.665	-2.581	78.263	1.00 29.73
ATOM	4852	CG						
ATOM	4853	CD1	LEU I	3 232	69.746	-1.856	77.454	1.00 28.11
ATOM	4854	CD2	LEU I	3 232	67.409	-2.784	77.414	1.00 26.54
			LEU I		68.688	-6.119	79.898	1.00 19.25
ATOM	4855	С						
ATOM	4856	0	LEU I	3 232	68.365	-7.051	79.162	1.00 19.49
ATOM	4857	N	PHE I	3 233	69.468	-6.280	80.962	1.00 20.50
			PHE I		69.950	-7.599	81.378	1.00 20.70
MOTA	4858	CA						
ATOM	4859	CB		3 233	70.825	-7.471	82.632	1.00 23.75
ATOM	4860	CG	PHE I	3 233	71.217	-8.790	83.239	1.00 28.58
			PHE		72.285	-9.519	82.731	1.00 30.48
MOTA	4861							1.00 25.32
ATOM	4862		PHE 1		70.481	-9.328	84.294	
ATOM	4863	CE1	PHE I	3 233	72.617	-10.762	83.262	1.00 31.87
	4864		PHE		70 803	-10.573	84.832	1.00 31.26
ATOM							84.317	1.00 32.29
ATOM	4865	CZ		3 233		-11.292		
ATOM	4866	С	PHE	3 233	68.712	-8.439	81.727	1.00 20.23
ATOM	4867	0		в 233	68.553	-9.567	81.270	1.00 21.56
					67.842		82.560	1.00 21.26
ATOM	4868	N	ALA I					
MOTA	4869	CA	ALA :	B 234	66.626	-8.576	82.963	1.00 19.60
ATOM	4870	CB	ALA	B 234	65.835	-7.733	83.950	1.00 19.25
				B 234	65.772	-8.898	81.749	1.00 18.87
ATOM	4871	С						
MOTA	4872	0		B 234		-10.010	81.624	1.00 21.91
ATOM	4873	N	LEU :	B 235	65.634	-7.934	80.845	1.00 20.29
	4874	CA		B 235	64.822	-8.141	79.652	1.00 19.53
MOTA							78.795	1.00 24.07
ATOM	4875	CB	LEU		64.773			
ATOM	4876	CG	LEU	B 235	63.465	-6.607	78.024	1.00 27.87
ATOM	4877	CDI	LEU	B 235	63.783	-5.813	76.770	1.00 20.77
					62.761		77.664	1.00 26.94
ATOM	4878		LEU					
ATOM	4879	С	LEU		65.376		78.795	1.00 20.79
ATOM	4880	0	LEU	B 235	64.648	-10.205	78.431	1.00 18.25
			GLU		66.665		78.462	1.00 19.33
ATOM .	4881	N .						1.00 27.93
MOTA	4882	CA	GLU	B 236		-10.206	77.629	
ATOM	4883	CB	GLU	B 236	68.777	-9.853	77.384	1.00 31.06
	4884	CG ,		B 236	68.969	-8.597	76.548	1.00 43.60
MOTA					70.428		76.259	1.00 45.19
MOTA	4885	CD	GLU					
MOTA	4886	OEl	GLU	B 236	70.697	-7.309	75.538	1.00 48.77
MOTA	4887	OF?	GLII	B 236	71.300	-9.032	76.751	1.00 52.72
			CLII	B 236		-11.607	78.209	1.00 24.89
ATOM	4888	С						1.00 22.06
ATCM	4889	0	GLU			-12.552	77.501	
ATCM	4890	N	LYS	B 237	67.520	-11.748	79.492	1.00 24.20
	4891	CA		B 237	67 449	-13.058	80.130	1.00 27.10
ATOM						-12.984	81.562	
ATOM	4892	CB		B 237				
ATOM	4893	CG	LYS	B 237		-12.641	81.650	1.00 29.46
ATOM	4894	CD	LYS	B 237	70.305	-13.683	80.924	1.00 31.65
						-13.356	80.993	1.00 39.70
MOTA	4895	CE		B 237				1.00 46.74
ATOM	4896	NZ		B 237		-14.363	80.242	
ATOM	4897	С	LYS	B 237	66.019	-13.615	80.143	1.00 30.92
				B 237		-14.766	79.763	1.00 31.42
MOTA	4898	0					80.573	1.00 25.86
MOTA	4899	N		B 238		-12.806		1,00 23.00
MOTA	4900	CA	SER	B 238		-13.280	80.620	1.00 27.98
	1901	СВ		B 238		-12.241	81.289	1.00 23.89
ATOM						-11.028	80.565	1.00 29.27
ATCM	4902	OG		B 238				1.00 28.32
ATOM	1903	С		B 238		-13.642	79.229	1.00 20:32
ATOM	4904	0	SER	B 238	62.387	7 -14.605	79.089	1.00 29.65
		N	LETT	B 239		-12.886	78.203	1.00 27.39
atom	1905		ائتان	7 2 2 2 2			76.846	
ATCM	4906	CA		B 239		-13.192		1.00 30 53
ATCM	4907	CB	LEU	B 239	63.544	-12.129	75.837	1.00 30.53
							•	

ATOM	4908	CG	LEU E	239	62.833	-10.772	75.895	1.00 36.06
ATOM	4909		LEU E		63.404	-9.836	74.842	1.00 29.64
	4910		LEU E			-10.976	75.667	1.00 30.73
ATOM						-14.563	76.430	1.00 34.15
MOTA	4911	C	LEU E					
ATOM	4912	0	LEU E			-15.340	75.803	1.00 33.23
MOTA	4913	N	GLU E			-14.859	76.788	1.00 31.39
MOTA	4914	CA	GLU E	240	65.434	-16.152	76.472	1.00 33.79
ATOM	4915	СЗ	GLU E		66.859	-16.238	77.011	1.00 38.51
ATOM	4916	CG	GLU E			-15.407	76.275	1.00 40.56
			GLU E			-15.532	76.903	1.00 48.20
ATOM	4917	CD	-			-16.679		
MOTA	4918	CE1					77.161	1.00 45.36
MOTA	4919	OE2	GLU E			-14.492	77.130	1.00 48.21.
ATOM	4920	C	GLU E	240		-17.258	77.108	1.00 33.23
ATOM	4921	0	GLU E	240	64.391	-18.310	76.510	1.00 32.15
ATOM	4922	31	ILE E	241	64.146	-17.017	78.331	1.00 29.72
ATOM	4923	CA	ILE F		63.328	-17.989	79.047	1.00 29.85
ATOM	4924	CB	ILE E			-17.489	80.466	1.00 30.42
		CG2	ILE E			-18.456	81.162	1.00 29.88
MOTA	4925					-17.311	81.254	1.00 29.77
ATOM	4926	CG1	ILE E					
ATOM	4927	CD1	ILE E			-16.760	82.654	1.00 32.92
ATOM	4928	С	ILE E			-18.247	78.298	1.00 34.65
MOTA	4929	С	ILE E	241		-19.396	78.149	1.00 30.22
MOTA	4930	N	VAL E	242		-17.178	77.823	1.00 31.16
MOTA	4931	CA	VAL E	242	60.114	-17.312	77.105	1.00 34.55
ATOM	4932	СЗ	VAL E		59.476	-15.937	76.825	1.00 30.77
ATOM	4933		VAL E			-16.113	76.038	1.00 32.18
	4934		VAL E			~15.214	78.140	1.00 31.57
MOTA			VAL E			-18.042	75.787	1.00 36.56
ATOM	4935	C				-18.959	75.453	1.00 33.93
ATOM	4936	0	VAL E					
MOTA	4937	N	LYS E			-17.627	75.042	1.00 38.64
ATOM	4938	CA	LYS E			-18.241	73.760	1.00 44.36
ATOM	4939	CB	LYS E			-17.659	73.214	1.00 48.33
MOTA	4940	CG	LYS E		62.810	-16.399	72.386	1.00 53.88
MOTA	4941	CD	LYS E	243	62.185	-16.718	71.036	1.00 53.72
ATOM	4942	CE	LYS E		63.056	-17.681	70.242	1.00 54.69
ATOM	4943	NZ	LYS E			-18.025	68.923	1.00 57.75
MOTA	4944	c	LYS E			-19.755	73.824	1.00 43.21
	4945	0	LYS E			-20.455	72.884	1.00 42.92
· ATOM			GLU E			-20.257	74.935	1.00 45.77
ATOM	4946	:1				-21.687	75.085	1.00 47.72
MOTA	4947	CA	GLU E					1.00 50.89
ATOM	4948	23	GLU E			-21.925	76.075	
MOTA	4949	CG	GLU E			-23.378	76.208	1.00 57.16
MOTA	4950	CD	GLU E		65.223		77.173	1.00 57.74
MOTA	4951		GLU E		66.295		76.942	1.00 60.18
MOTA	4952		GLU E		65.049		78.160	1.00 61.59
MOTA	4953	С	GLU E	244		-22.507	75.505	1.00 47.78
ATOM	4954	٥	GLU E	244	61.376	-23.736	75.544	1.00 51.39
ATOM	4955	N	VAL E			-21.851	75.805	1.00 43.31
ATOM	4956	ĈA	VAL E			-22.589	76.230	1.00 43.55
ATOM	4957	CB	VAL E			-22.514	77.771	1.00 45.89
		221	VAL E			-23.322	78.231.	
ATOM	4958					-23.040	78.435	1.00 46.37
MOTA	4959		VAL					1.00 41.01
ATOM	1960	C	VAL E			-22.115	75.565	
MOTA	4961	0	VAL E			-22.676	75.798	1.00 39.36
ATOM	4962	31	PHE E			-21.101	74.716	1.00 34.37
MOTA	4963	CA	PHE E			-20.602	74.077	1.00 34.36
ATOM	1964	23	PHE E		55.986	-19.517	74.958	1.00 30.80
ATOM	4965	CG	PHE E		54.542	-19.230	74.644	1.00 32.57
ATOM	4966	221	PHE E			-20.142	74.989	1.00 27.72
ATOM	4967	202	PHE E	246		-18.048	74.003	1.00 28.20
	1968	CEI	PHE E	246		-19.878	74.704	1.00 26.71
ATOM		CES	PHE I			-17.773	73.713	1.00 29.27
ATCM	1969		PHE I	210		-18.689	74.065	1.00 26.18
ATOM	4970	22	rne i	240		-20.040	72.682	1.00 35.32
ATOM :	4971	Ç	PHE F	240				1.00 33.32
ATOM	4972	3	PHE I		57.740			1.00 31.73
ATOM	4973	::	GLU I	247	56.205	-20.568	71.683	1.00 37.00

ATOM	4974	CA	GLU :	В	247		56.36	3	-20.137	70.296	1.00	40.73
MOTA	4975	CB	GLU						-21.347	69.370	1.00	43.38
ATOM	4976	CG	GLU				56.67	0	-22.702	70.073	1.00	51.49
ATOM	4977	CD	GLU						-23.214	70.718	1.00	55.29
ATOM	4978		GLU				54.88	37	-22.601	71.691	1.00	49.08
ATOM	4979		GLU						-24.246	70.241	1.00	60.95
MOTA	4980	C	GLU				55.09	0	-19.379	69.939	1.00	39.04
ATOM	4981	ō	GLU						-19.960	69.436	1.00	39.49
ATOM	4982	N	PRO				55.07	16	-18.064	70.182	1.00	35.13
ATOM	4983	CD	PRO						-17.279	70.733	1.00	33.57
ATOM	4984	CA	PRO						-17.188	69.916	1.00	36.03
ATOM	4985	CB	PRO				54.37	75	-15.878	70.562	1.00	35.33
ATOM	4986	CG	PRO				55.84	4	-15.880	70.233	1.00	32.85
ATOM	4987	C	PRO				53.56	53	-16.990	68.457	1.00	33.44
ATOM	4988	o	PRO				54.42	27	-16.808	67.604	1.00	29.38
ATOM	4989	N	GLU.		249		52.26	53	-17.012	68.182	1.00	32.23
ATOM	4990	CA	GLU				51.77	73	-16.782	66.828	1.00	29.35
ATOM	4991	CB	GLU				50.37	74	-17.366	66.645	1.00	31.87
ATOM	4992	CG	GLU	В	249		50.28	34	-18.867	66.787	1.00	28.64
ATOM	4993	CD	GLU	В	249				-19.338	66.747	1.00	33.37
ATOM	4994	OE1	GLU	В	249		48.06	59	-18.917	67.630		26.38
MOTA	4995	OE2	GLU	В	249				-20.115	65.835		37.71
ATOM	4996	С	GLU	В	249				-15.273	66.650	1.00	28.25
MOTA	4997	0	GLU	В	249				-14.765	65.537		21.47
ATOM	4998	N	VAL		250				-14.564	67.768	1.00	21.77
ATOM	4999	CA	VAL	В	250				-13.110	67.756		21.41
ATOM	5000	CB	VAL		250				-12.676	67.357	1.00	26.42
ATOM	5001		VAL		250				-13.196	68.378	1.00	20.96
MOTA	5002		VAL		250				-11.166	67.243	1.00	24.68
ATOM-	5003	С	VAL		250				-12.608	69.168	1.00	22.88
MOTA	5004	0	VAL		250				-13.354	70.133		18.00
MOTA	5005	J.	TYR		251				-11.359	69.295		20.28 22.33
MOTA	5006	CA	TYR		251				-10.823	70.620		20.67
MOTA	5007	ĊВ	TYR		251	•			-11.043 -10.045	70.999 70.427	1.00	
ATOM	5008	CG	TYR		251				-8.834	71.072		19.31
MOTA	5009	CD1	TYR		251		55.19 56.13		-7.922	70.562		23.73
MOTA	5010	CE1	TYR		251 251		55.6			69.254	1.00	18.72
ATOM	5011	CD2	TYR		251		56.5		-9.417	68.734		22.71
MOTA	5012	CE2	TYR TYR		251		56.8		-8.220	69.390	1.00	27.33
MOTA	5013 5014	CZ OH	TYR				57.7		-7.308	68.865		23.18
	5015	C	TYR		251		52.1		-9.349	70.732		25.71
ATOM ATOM	5016	ō	TYR		251		52.0		-8.622	69.728	1.00	20.14
ATOM	5017.	N	LEU		252		51.8		-8.930	71.958	1.00	21.13
ATOM	5018	CA	LEU				51.5		-7.532	72.252		24.61
MOTA	5019	CB	LEU				50.1		-7.373	73.897	1.00	22.88
MOTA	5020	CG	LEU				48.9	15	-7.435	1.996	1.00	23.73
ATOM	5021		LEU				48.7	79	-8.792	··:.360		23.18
ATOM	5022	CD2	LEU	В	252		47.6	97	-7.119	72.833		29.06
ATOM	5023	С	LEU				52.6	10	-7.044	73.217		24.77
ATOM	5024	0	LEU	В	252		53.0		-7.797	74.076		23.33
ATOM	5025	N	LEU	В	253		53.0		-5.786	73.071		20.14
MOTA	5026	CA	LEU				54.0		-5.209	73.911		20.33
MOTA	5027	CB	LEU				55.3		-4.946			15.18
MOTA	5028	CG	LEU				56.4		-4.210	73.688		18.34
ATOM	5029	CDI	LEU				57.0		-5.044	74.829		14.11
MOTA	5030		LEU				57.5		-3.953	72.624		19~60
ATOM	5031	С	LEU				53.5		-3.913	74.536	1.00	20.54
ATOM	5032	3	LEU				53.2		-2.974	73.821		22.80
ATOM	5033	N	GLN				53.4		-3.858	75.865	1.00	20.37 21.77
ATOM	5034	CA	GLN				53.0		-2.654	76.539	1.00	17.85
ATOM	5035	CB	GLN				52.1		-3.040	77.755	1.00	32.51
ATOM	5036	CG	GLN				52.7		-2.815	79.124 79.609	1.00	28.19
ATOM	5037	CD	GLN				52.5 51.5		-1.396 -0.996	80.124	1 00	26.96
ATCM	5038		GLN				53.6			79.432	1 00	16.80
ATOM	5039	NEZ	GLN	B	254		٠.٠٠	رں	-0.615		1.00	

ATOM	5040	С	GLN	В	254		54.211	-1.793	76.887	1.00	20.15
MOTA	5041	Ō	GLN				55.186	-2.254	77.497		20.11
									-		
MOTA	5042	N	LEU				54.146	-0.532	76.468		19.46
MOTA	5043	CA	LEU	В	255		55.268	0.386	76.614	1.00	15.99
ATOM	5044	CB	LEU	В	255		55.692	0.831	75.211	1.00	18.15
	5045	CG	LEU		255		56.143	-0.316	74.296		21.80
MCTA				_							
MCTA	5046	CD1	LEU	В	255		56.215	0.159	72.850	1.00	16.70
ATOM	5047	CD2	LEU	3	255		57.501	-0.843	74.771	1.00	13.76
ATOM	5048	C	LEU				55.083	1.614	77.492	1 00	21.41
							55.379	2.741			
ATOM	5049		LEU				33.373		77.065		18.40
ATOM	5050	N	GLY	В	256		54.618	1.408	78.718	1.00	16.80
MOTA	5051	CA	GLY	В	256		54.456	2.519	79.634	1.00	19.90
ATOM	5052	C	GLY		256		55.816	3.181	79.818	1 00	17.68
							56.854				
ATOM	5053	0	GLY					2.514	79.841		13.96
MOTA	5054	N	THR	В	257		55.824	4.497	79.936	1.00	19.55
ATOM	5055	CA	THR	B	257		57.081	5.205	80.098	1.00	19.47
ATOM	5056	CB	THR				57.044	6.547	79.340	1 00	21.49
	5057	OG1					55.989	7.365	79.858		17.43
MOTA											
ATOM	5058	CG2					56.780	6.311	77.850		22.49
MOTA	5059	C	THR	В	257		57.440	5.466	81.564	1.00	20.75
ATOM	5060	0	THR	В	257		58.480	5.054	81.843	1.00	25.01
ATOM	5061	N	ASP		258		56.618	5.004	82.504		17.23
ATOM	5062	CA	ASP				56.929	5.277	83.906		17.42
ATOM	5063	CB	ASP	В	258		55.744	4.940	84.846	1.00	12.75
ATOM	5064	CG	ASP	В	258		55.197	3.524	84.676	1.00	21.60
ATOM	5065	C	ASP		258		58.245	4.718	84.460		16.09
							58.667	5.116	85.542		22.07
ATOM	5066	0	ASP					,			
atom	5067		ASP		258		55.901	2.642	84.150		17.74
ATOM	5068	OD2	ASP	В	258		54.041	3.281	85.109	1.00	18.68
ATOM	5069	N	PRO	Б	259		58.879	3.746	83.779	1.00	20.98
	5070	CD	PRO			•	58.474	2.901	82.641		17.75
MOTA											
ATOM	5071	CA	PRO				60.154	3.257	84.321		22.63
ATOM	5072	CB	PRO	В	259		60.395	1.988	83.506	1.00	23.46
ATOM	5073	CG	PRO	В	259		59.800	2:343	82.199	1.00	27.08
ATOM	5074	C			259 -		61.305	4.284	84.172	1.00	23.86
		ō			259		62.406	4.082	84.698		24.24
MOTA	5075		PRO								
atom	5076	N	LEU				61.054	5.387	83.465		20.49
ATOM	5077	CA	LEU	В	260		62.080	6.417	83.262	1.00	15.17
ATOM	5078	CB	LEU	В	260		61.626	7.408	82.185	1.00	17.03
MCTA	5079	CG	LEU				61.431	6.881	80.760	1.00	16.02
					260		60.703	7.915	79.901		17.03
ATOM	5080		LEU								
ATOM	5081		LEU		260		62.803	6.546	80.163		18.58
ATOM	5082	C	LEU	В	260		62.449	7.194	84.541	1.00	22.45
MOTA	5083	C	LEU	В	260		61.611	7.440	85.412	1.00	17.84
ATOM	5084	N	LEU			٠	63.713	7.588	84.635		22.90
							64.219	8.332		1.00	
ATOM	3085	CA	LEU								
ATOM	5086	CB	LEU				65.605	8.914	85.473		20.58
ATOM	087د	CG	LEU	В	261		66.180	9.850	86.553	1.00	28.44
ATOM	5088	CD1	LEU				66.481	9.055	87.812	1.00	29.84
ATOM	5089		LEU				67.462	10.522	86.057		32.10
ATOM	5090	C	LEU				63.315	9.475	86.227		27.61
ATOM	5091	0	LEU	В	261		62.978	9.586	87.408	1.00	24.02
ATOM	5092	17	GLU	В	262		62.934	10.315	85.269	1.00	23.33
ATOM	5093	CA	GLU				62.126	11.490	85.530		23.38
			GLU				62.115	12.415	84.302		23.17
ATOM	5094	CB									
ATOM	5095	CG	GLU				63.503	12.854	83.806		28.98
ATOM	5096	CD	GLU	B	262		64.179	11.831	82.902		32.26
ATOM	5097		GLU				63.702	10.673	82.838	1.00	29.28
			GLU				65.201	12.186	82.264		25.42
ATOM	5098										
ATOM	5099	С	GLU				60.693	11.249	85.976		23.25
ATCM	5100	0	GLU	E	262		60.013	12.192	86.368		27.63
ATOM	5101	Ŋ	ASP				60.219	10.011	85927	1.00	22.25
ATOM	5102	CA	ASP				58.840	9.751	86.345		24.46
							58.214	8.659	85.465		20.94
ATOM	5103	CB	ASP								
ATOM	5104	CG	ASP				56.710	8.543	85.659		25.30
ATOM	5105	OD1	ASP	3	263		55.995	8.318	84.656	1.00	21.82

MOTA	5106	OD2	ASP I	3 263	56.239	8.666	86.811	1.00	18.31
ATOM	5107	С	ASP I	3 263	58.834	9.339	87.814	1.00	26.39
ATOM	5108	0	ASP I		59.437	8.335	88.179		22.11
MOTA	5109	N	TYR I		58.155	10.124	88.648		25.81
ATOM	5110	CA	TYR I		58.101	9.864	90.084		30.96
ATOM	5111	CB	TYR !		57.511 58.241	11.055 12.356	90.841 90.645		36.80 46.58
ATOM	5112	CG	TYR I		57.981	13.166	89.542		47.03
ATOM ATOM	5113 5114.	CD1 CE1	TYR I		58.654	14.370	89.364		50.25
ATOM	5115	CD2	TYR I		59.197	12.779	91.565		50.94
ATOM	5116	CE2	TYR I		59.876	13.977	91.396		51.28
ATOM	5117	CZ	TYR I		59.600	14.769	90.297	1.00	52.21
MOTA	5118	ОН	TYR I		60.268	15.961	90.142		49.65
MOTA	5119	С	TYR I		57.340	8.628	90.525		31.04
ATOM	5120	0	TYR I		57.514 .		91.657		24.50
ATOM	5121	N	LEU I		56.491 55.744	8.074 6.900	89.666 90.086		26.68 24.17
MOTA MOTA	5122 5123	CA CB	LEU I		54.371	6.838	89.390		24.69
ATOM	5124	CG	LEU		53.415	7.982	89.761		26.00
ATOM	5125		LEU I		51.970	7.583	89.460	1.00	22.21
ATOM	5126	CD2	LEU I	B 265	53.530	8.281	91.238		29.31
MOTA	5127	С	LEU I		56.478	5.568	89.948		25.83
MOTA	5128	0	LEU I		55.848	4.512	89.908		21.74
MOTA	5129	N	SER I		57.808	5.618 4.398	89.867 89.813		23.30 20.75
MOTA	5130 5131	CA CB	SER I		58.608 58.820	3.900	88.378		19.67
ATOM ATOM	5132	OG	SER		59.863	4.615	87.739		18.11
ATOM	5133	C	SER		59.963	4.710	90.420		23.01
ATOM	5134	Ō	SER I		60.437	5.845	90.345		17.74
ATOM	5135	N		B 267	60.590	3.707	91.023		24.25
MOTA	5136	CA	LYS		61.905	3.916	91.613		23.79
ATOM	5137	CB	LYS		62.027 60.989	3.153 3.582	92.929 93.960		23.71 27.29
MOTA	5138 5139	CG CD	LYS :		61.059	5.088	94.207		30.33
ATOM ATOM	5140	CE		B 267	60.067	5.535	95.273		30.90
ATOM	5141	NZ	LYS		60.155	7.004	95.509		33.37
ATOM	5142	С		B 267	62.990	3.483	90.634		26.41
ATOM	5143	0		B 267	64.153	3.317	91.016		25:33
MOTA	5144	N		B 268	62.595	3.288	89.375		22.18
ATOM	5145	CA	PHE :	B 268	63.529 62.814	2.919 2.171	88.318 87.179		20.55
MOTA MOTA	5146 5147	CB CG		B 268	62.389	0.761	87.526		19.23
ATOM	5148		PHE		61.722	-0.025	86.585		20.72
MOTA	5149		PHE		62.673	0.207	88.773	1.00	18.17
MOTA	5150			B 268	61.344	-1.336	86.875		18.83
MOTA	5151		PHE	B 268	62.300	-1.105	89.073	1.00	20.05
ATOM	5152	CZ		B 268	61.634 64.114	-1.879 4.222	88.122 87.785	1.0' 1.0	19.70 23.66
ATOM	5153 5154	С О		B 268	63.412	5.232	87.692		19.40
atom atom	5155	N		B 269	65.396	4.203	87.437		21.96
ATOM	5156	CA		B 269	66.060	5.396	86.926	1.00	25.04
ATOM	5157	CB	ASN		67.243	5.783	87.824		25.68
ATOM	5158	CG		B 269	66.845	5.946	89.273		27.04
MOTA	5159		ASN		65.832	6.557	89.579		28.81
ATOM	5160		ASN	B 269	67.659	5.419	90.176 85.523		31.12 25.87
ATOM	5161 5162	C		B 269 B 269	66.579 67.769	5.151 5.336	85.268		24.58
atom atom	5163	И О		B 270	65.695	4.757	84.611		21.37
ATOM	5164	CA.		B 270	66.116	4.462	83.241	1.00	16.35
ATOM	5165	CB	LEU		65.176	3.426	82.610		24.12
ATOM	5166	CG	LEU	B 270	64.909	2.144	83.412		27.89
MOTA	5167		LEU	в 270	64.181	1.136	82.515	1.00	23.01
ATOM	5168		LEU		66.221	1.547	83.904		23.92 20.06
ATOM	5169	C		B 270	66.184	5.682	82.337 82.663	1.00	16.34
ATOM	5170	0		B 270	65.654 66.839	6.761 5.497	81.193	1 00	20.07
ATOM	5171	11	コ たド	B 271	00.639	J. 47/		1.00	

MOTA	5172	CA	SER	В	271	66.989	6.546	80.200	1.00 21.20
ATOM	5173	CB			271	68.437			
							6.621	79.714	1.00 21.80
ATOM	5174	OG			271	68.772	5.485	78.921	1.00 21.47
ATOM	5175	С	SER	В	271	66.106	6.228	79.000	1.00 22.83
ATOM	5176	0			271	65.631	5.102	78.854	1.00 16.12
ATOM	5177	11			272	65.916	7.238	78.154	1.00 20.84
MOTA	5178	CA	ASN	В	272	65.152	7.156	76.906	1.00 27.82
ATOM	5179	CB	ASN	В	272	65.263	8.478	76.123	1.00 30.30
ATOM	5180	CG			272	64.198			
							9.456	76.475	1.00 37.83
MOTA	5181	ODI	ASN			64.167	10.575	75.946	1.00 37.72
ATOM	5182	ND2	ASN	В	272	63.299	9.052	77.360	1.00 41.69
ATOM	5183	С	7 CM	B	272	65.701	6.088	75.974	1.00 26.88
ATOM	5184	0			272	64.967	5.280	75.412	1.00 23.12
ATOM	5185	N			273	67.012	6.160	75.774	1.00 20.40
ATOM	5186	CA	VAL	В	273	67.745	5.260	74.899	1.00 27.34
ATOM	5187	CB	VAL			69.225	5.705	74.805	1.00 30.40
ATOM	5188		VAL			70.036	4.691	74.029	1.00 34.98
MOTA	5189	CG2	VAL	В	273	69.299	7.057	74.115	1.00 33.57
ATOM	5190	С	VAL	В	273	67.664	3.812	75.343	1.00 24.23
ATOM	5191	0	VAL	B	273	67.590	2.913	74.513	1.00 24.19
	5192	_			274				
MOTA		N	ALA			67.690	3.580	76.648	1.00 20.96
ATOM	5193	CA	ALA	В	274	67,589	2.220	77.151	1.00 18.12
ATOM	5194	CB	ALA	В	274	67.858	2.195	78.646	1.00 19.09
ATOM	5195	С	ALA			66.172	1.729	76.863	
	5196								1.00 18.23
MOTA		0	ALA			65.962	0.567	76.525	1.00 20.77
ATOM	5197	N	PHE	В	275	65.207	2.631	77.003	1.00 18.50
ATOM	5198	CA	PHE	В	275	63.802	2.310	76.761	1.00 21.25
ATOM	5199	CB	PHE		275	62.941	3.546	77.037	1.00 22,24
ATOM	5200	CG							•
			PHE		275	61.466	3.303	76.921	1.00 24.72
MOTA	5201	CDI	PHE	В	275	60.815	2.483	77.826	1.00 23.64
ATOM	5202	CD2	PHE	В	275	60.732	3.893	75.907	1.00 27.31
ATOM	5203	CE1	PHE	В	275	59.450	2.254	77.722	1.00 27.82
ATOM	5204		PHE			59.365			
							3.670	75.795	1.00 27.62
ATOM	5205	CZ	PHE			58.727	2.851	76.701	1.00 25.78
ATOM	5206	C	PHE	В	275	63.642	1.860	75.305	1.00 24.47
ATOM	5207	0	PHE	В	275	63.045	0.821	75.030	1.00 22.68
ATOM	5208	N	LEU		276	64.183	2.648		
								74.378	1.00 23.85
MOTA	5209	CA	LEU		276	64.128	2.330	72.946	1.00 21.28
ATOM	5210	CB	LEU	В	276	64.814	3.421	72.134	1.00 19.87
MOTA	5211	CG	LEU	В	276	65.114	3.132	70.662	1.00 24.94
ATOM	5212		LEU		276	63.818	2.852	69.936	
									1.00 24.81
MOTA	5213		LEU		276	65.840	4.312	70.018	1.00 21.01
MOTA	5214	С	LEU		276	64.841	1.021	72.653	1.00 22.33
MOTA	5215	0	LEU	В	276	64.348	0.191	71.886	1.00 20.73
ATOM	5216	N	LYS			66.011	0.857	73.261	1.00 20.72
ATOM	5217	CA	LYS						
						66.823	-0.335	73.076	1.00 24.36
ATOM	5218	CB	LYS			68.086	-0.239	73.938	1.00 27.37
MOTA	5219	CG	LYS	3	277	69.303	-0.973	73.381	1.00 35.58
ATOM	5220	CD	LYS	В	277	69.061	-2.456	73.188	1.00 43.87
ATOM	5221	CE	LYS			70.283			
							-3.137	72.580	1.00 44.87
MOTA	5222	NZ	LYS			70.616	-2.586	71.230.	1.00 49.66
MOTA	5223	С	LYS	B	277	66.000	-1.554	73.482	1.00 24.22
ATOM	5224	0	LYS			65.987	-2.568	72.777	1.00 19.90
ATOM	5225	N	ALA			65.319			
							-1.454	74.624	1.00 22.32
ATOM	5226	CA	ALA			64.476	-2.544	75.114	1.00 21.71
MOTA	5227	CB	ALA	В	278	63.752	-2.117	76.381	1.00 17.34
MOTA	5228	c	ALA	В	278	63.459	-2.896	74.031	1.00 22.68
ATCM	5229	Ö	ALA			63.231	-4.068	73.723	1.00 19.27
ATOM	5230	N	PHE			62.849	-1.862	73.464	1.00 24.79
ATOM	5231	CA	PHE	В	279	61.860	-2.014	72.398	1.00 22.74
ATOM	5232	CB	PHE			61.395	-0.629	71.955	1.00 22.46
ATOM	5233	CG	PHE			60.467		70.778	1.00 22.62
							-0.640		
MOTA	5234		PHE			59.196	-1.182	70.882	1.00 21.74
MOTA	5235		PHE			60.862	-0.078	69.567	1.00 26.07
ATOM	5236		PHE			58,325	-1.162	69.799	1.00 27.02
ATOM	5237		PHE			60.001	-0.051	68.476	1.00 25.57
AION.	J4J1	عدت	FILE	. د	L 1 3	55.001	-0.031	4/0	1.00 23.3/

										-
2	MOT	5238	CZ	PHE B	279	58.727	-0.594	68.592	1.00	د25.13
						62.472	-2.768	71.212	1.00	23 60
ŕ	MOT	5239	С		279					
7	MOT	5240	0	PHE B	279	61.866	-3.697	70.678	1.00	26.54
					280	63.677	-2.376	70.804	1.00	21.93
•	MOT	5241	N							
;	MOTA	5242	CA	ASN B	280	64.318	-3.046	69.680	1.00	23.70
					280	65.520	-2.248	69.164	1.00	22.63
•	MOTA	5243	CB							
• 1	MOTA	5244	CG	ASN B	280	65.107	-0.937	68.505	1.00	
		5245		ASN B	280	64.094	-0.878	67.796	1.00	25.81
	MOTA									
7	MOTA	5246	ND2	ASN B.	280	65.900	0.112	68.714	1.00	
	MOTA	5247	С	ASN B	280	64.746	-4.466	70.009	1.00	26.10
									1.00	
ž	MOT	5248	0	ASN B		64.775	-5.321	69.124		
:	MOTA	5249	N	ILE B	281	65.080	-4.724	71.272	1.00	26.10
						65.485	-6.067	71.667	1.00	25 81
	MOTA	5250	CA	ILE B			•	_		
:	MOTA	5251	CB	ILE B	281	66.006	-5.098	73.124	1.00	28.50
		5252	CG2		281	66.046	-7.527	73.648	1.00	28.53
4	MOTA									32.07
7	MOTA	5253	CG1	ILE B		67.392	-5.454	73.173		
	MOTA	5254	CD1	ILE B	281	68.038	-5.442	74.541	1.00	28.24
							-7.030	71.507		25.77
- 4	MOTA	5255	С	ILE B		64.320				
	MOTA	5256	0	ILE B	281	64.484	-8.131	70.982	1.00	23.39
				VAL B		63.139	-6.618	71.950	1 00	21.30
	MOTA	5257	N							
٠,	MOTA	5258	CA	VAL B	282	61.961	~7.465	71.813		22.90
		5259	CB .	VAL B		60.703	-6.775	72.387	1.00	24.07
	MOTA									22.28
	ATOM	5260	CG1	VAL B		59.464	-7.611	72.093		
	MOTA	5261	CG2	VAL B	282	.60.865	-6.587	73.906	1.00	26.89
						61.718		70.339	1 00	23.87
	MOTA	5262	C.	VAL B			-7.795			
	MOTA	5263	0	VAL B	282	61.462	-8.949	69.978		22.65
				ARG B		61.799	-6.779	69.488	: 00	23.19
	MOTA	5264	N							
	MOTA	5265	CA	ARG B	283	61.576	-6.971	68.060		27.95
	MOTA	5266	CB	ARG B		61.510	-5.612	67.359	1.00	25.48
										26.55
	MOTA	5,267	CG	ARG B		60.337	-4.760	67.838		
	MOTA	5268	CD	ARG B	283	60.442	-3.333	67.339	1.00	31.52
						60.210	-3.208	65.908	1 00	24.43
	ATOM	5269	NE	ARG B					-	
	ATOM	5270	CZ	ARG B	283	60.915	-2.414	65.116		26.45
		5271	NH1	ARG B		61.902	-2.676	65.622	1.00	26.04
	ATOM									29.64
	ATOM	5272	NH2	ARG B		60.634	-2.356	63.825		
	ATOM	5273	С	ARG B	283	62.634	-7.855	67.402		32.04
						62.341	-8.552	66.431	1 00	29.76
	ATOM	5274	0	ARG B						
	MOTA	5275	N	GLU B	284	63.859	-7.821	67.923	1.00	31.50
		5276	CA	GLU B		64.934	-8.646	67.381	1.00	32.42
	ATOM									38.31
	ATOM	5277	CB	GLU B		66.289	-8.260	67.992		
	ATOM	5278	CG	GLU B	284	66.798	-6.864	67.640	1.00	48.93
						68.102	-6.518	68.362	1 00	56.28
	ATOM	5279	CD		284				1.00	57 37
	MOTA	5280	OEl	GLU B	284	69.084	-7.281	68.222	1.00	57.37
	ATOM	5281	OE2	GLU B	284	68.150	-5.485	69.069	1.00	55.42
							-10.105	67.714		31.93
	ATOM	5282	C	GLU B						
	ATOM	5283	o	GLU B	284	54.899	-11.001	66.913	1.00	28.26
				VAL B	205	64 089	-10.340	68.901	1.00	28.09
	MOTA	5284	N	VAL D					1 00	30.67
	ATOM	5285	CA	VAL B	285		-11.697	69.325		
	ATOM	5286	CB	VAL B		63.687	-11.802	70.863	1.00	28.33
							-13.206	71.262		29.84
	ATOM	5287	CGI	VAL B	∠ 8⊃					
	MOTA	5288	CG2	VAL B	285	65.037	-11.470	71.478		26.93
							-12.265	68.758	1.00	31.19
	ATOM	5289	C	VAL B						
	ATOM	5290	0	VAL B	285	62.422	-13.423	68.349		31.38
		5291	N	PHE B		61.398	-11.460	68.729	1.00	28.21
	ATOM									25.71
	MOTA	5292	CA	PHE B			-11.948	68.249	1.00	24.7
	ATOM	5293	CB	PHE B	286	59.064	-11.853	69.374		24.57
•					286		-12.804	70.514	1.00	26.87
	ATOM	5294	CG							25.16
	MOTA	5295	CD1	PHE B	286		-12.331	71.779		
		5296		PHE B	286	59.205	-14.180	70.319	1.00	22.51
	ATCM							72.833	1 00	22.92
	MOTA	5297	CEl		236		-13.213		00	22.00
	ATOM	5298	CE2	PHE 3	236	59.433	-15.063	71.362	1.00	21.99
				PHE B	- 26		-14.578	72.626	1,00	26.75
	ATOM	5299	CZ						1 00	25.90
	ATOM	5300	С	PHE B	286		-11.318	66.993	1.00	20.00
	ATOM-	5301	0	PHE B	286	58.388	-11.630	66.620	1.00	22.84
					297			66.329	1.00	28.27
	ATOM	5302	,N	GLY B	201				1 00	23.38
	ATOM	5303	CA	GLY B	287	59.756	-9.814	65.130	1.00	٥٠.٠
				-						

ATCM	5304	С	GLY	B 287		58.765	-8.719	65.498	1.00 29.17
			GLY			58.786	-8.216	56.517	1.00 22.88
ATCM	5305	0							
ATCM	5306	N	GLU	B 288		57.896	-8.361	64.558	1.00 26.77
ATOM	5307	CA	CLII	B 288		56.893	-7.324	64.754	1.00 25.38
ATOM	5308	CB	GLU	B 288		56.405	-6.791	63.405	1.00 29.51
ATCM	5309	CG	CLII	B 288		57.430	-6.003	62.605	1.00 36.06
ATCM	5310	CD		B 288		57.906	-4.769	63.347	1.00 41.10
ATCM	5311	OF1	GLU	B 288		57.058	-4.055	63.919	1.00 41.19
atom	5312		GLU			59.125	-4.503	63.348	1.00 44.69
MOTA	5313	С	-GLU	B 288		55.682	-7.819	65.527	1.00 27.87
	5314	0	GLU	B 288		55.209	-8.931	65.308	1.00 26.80
MOTA									
MOTA	5315	N	GLY	B 289		55.176	-6.973	66.419	1.00 24.53
ATCM	5316	CA	GLY	B 289	•	54.006	-7.326	67.204	1.00 29.17
ATCM	5317	С	GLY			53.015	-6.171	67.244	1.00 30.46
ATOM	5318	0	GLY	B 289		53.005	-5.326	66.358	1.00 26.17
ATOM	5319	N	VAL			52.171	-6.142	68.268	1.00 23.95
						51.194	-5.079		
ATCM	5320	CA	VAL					68.440	1.00 22.25
atom	5321	CB	VAL	B 290		49.794	-5.655	68.783	1.00 18.71
ATCM	5322	CG1	VAL	B 290		48.810	-4.525	69.047	1.00 22.67
						49.289	-6.504	67.629	1.00 19.26
MOTA	5323	CG2		B 290					
ATCM	5324	С	VAL	B 290		51.722	-4.232	69.593	1.00 21.55
ATOM	5325	0	VAL	B 290		51.960	-4.741	70.687	1.00 21.32
						51.913	-2.941		1.00 21.06
ATOM	5326	N	TYR					69.346	
ATOM	5327	CA	TYR	B 291		52.479	-2.063	70.357	1.00 19.29
ATOM	5328	CB	TYR	B 291		53.582	-1.216	69.711	1.00 20.40
							-2.072		
MOTA	5329	CG	TYR			54.553		68.918	1.00 23.09
ATOM	5330	CD1	TYR	B 291		54.740	-1.875	67.549	1.00 19.52
ATOM	5331	CE1	TVP	B 291		55.580	-2.712	66.809	1.00 20.67
						55.234	-3.122	69.527	•
ATOM	5332	CD2	TYR						1.00 22.88
MOTA	5333	CE2	TYR	B 291		56.070	-3.960	68.800	1.00 26.04
ATOM ·	5334	CZ	TYR	B 291	-	56.235	-3.752	67.442	1.00 23.44
						57.027	-4.612	66.722	
MOTA	5335	OH	TYR						1.00 28.02
ATOM	5336	С	TYR	B 291		51.465	-1.180	71.068	1.00 26.89
ATOM	5337	0	TYR	B 291		50.668	-0.479	70.429	1.00 20.26
						51.522	-1.204	72.399	1.00 21.75
ATCM	5338	N	LEU						•
ATOM	5339	CA	LEU	B 292		50.604	-0.426	73.227	1.00 22.11
ATOM	5340	CB	LEU	B 292		49.765	-1.369	74.088	1.00 20.92
				B 292		49.091	-2.542	73.375	1.00 22.94
ATOM	5341	CG							
MCTA	5342		LEU			48.328	-3.362	74.411	1.00 21.03
ATOM	5343	CD2	LEU	B 292		48.149	-2.043	72.281	1.00 18.04
	5344		LEU			51.330	0.557	74.147	1.00 21.59
ATOM		С							
ATOM	5345	၁		B 292		52.514	0.404	74.426	1.00 19.96
ATOM	5346	N	GLY	B 293		50.606	1.571	74.613	1.00 23.31
ATOM	5347	CA	GLY			51.195	2.537	75.521	1.00 20.76
ATOM	5348	С	GLY			51.163	1.979	76.930	1.00 26.15
ATOM	5349	0	GLY	B 293		51.263	0.765	77.133	1.00 20.96
ATOM	5350	N		B 294		51.017	2.859	77.914	1.00 24.63
ATCM	5351	CA		B 294		50.980	2.407	79.293	1.00 20.00
ATCM	5352	С	GLY	B 294		51.176	3.538	80.285	1.00 22.59
ATOM	5353	ō		B 294		51.145	4.719	79.916	1.00 17.46
ATOM	5354	N		B 295		51.373	3.179	81.551	1.00 17.10
ATOM	5355	CA	GLY	B 295		51.577	4.180	82.582	1.00 16.52
ATOM	5356	С		B 295		52.695	5.145	82.232	1.00 19.54
ATOM	5357	Ö		3 295		53.738	4.737	81.732	1.00 16.31
ATCM	5358	N	GLY	B 296		52.467	6.430	82.497	1.00 21.93
ATCM	5359	CA		B 296		53.448	7.465	82.207	1.00 20.05
							8.750		1.00 22.20
ATOM	5360	С		B 296		52.869		82.759	
ATOM	5361	0	GLY	B 296		51.790	9.160	82.336	1.00 20.48
ATOM	5362	N	TYR			53.573	9.402	83.682	1.00 20.93
							10.598	84.306	1.00 23.25
ATOM	5363	CA		B 297		53.025			
ATOM	5364	CB	TYR			52.731	10.284	85.774	1.00 19.93
MCTA	5365	CG	TYR	B 297		52.041	8.944	85.900	1.00 24.76
				B 297		52.779	7.758	85.936	1.00 21.97
ATOM	5366	CD1							
ATOM	5367	CE1		B 297		52.148	6.514	85.912	1.00 19.79
ATOM	5368	CD2	TYR	B 297		50.653	8.850	85.849	1.00 20.86
		CE2		B 297		50.012	7.612	85.822	1.00 19.57
ATOM	5369	ئەتت	111			JU. 010			



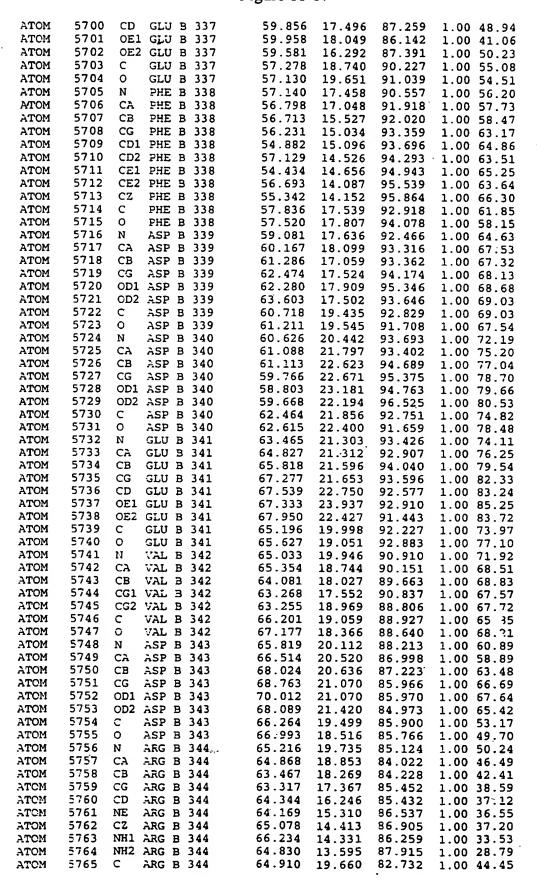
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ATOM	5370	CZ	TYR B	297		50.758	6.457	85.851	1.00	
MOTA	5371	он	TYR B			50.106	5.254	85.806	1.00	17.83
ATOM	5372	C	TYR B			53.839	11.877	84.181	1.00	
ATOM	5373	ō	TYR B			53.451	12.925	84.705	1.00	
ATOM	5374	N	HIS B			54.974	11.794	83.497	1.00	23.21
ATOM	5375	CA	HIS B			55.787	12.976	83.270	1.00	25.62
ATOM	5376	CB	HIS B			57.270	12.713	83.534	1.00	22.88
	5377	CG	HIS B			58.097	13.956	83.502	1.00	25.13
MOTA	5378		HIS B			58.406	14.791	82.482	1.00	28.22
MOTA	5379	NIDI	HIS B	298		58.617	14.536	84.641	1.00	32.76
ATOM	5380		HIS B			59.209	15.674	84.323	1.00	26.52
ATOM	5381		HIS B			59.094	15.852	83.019	1.00	
ATOM	5382	C	HIS B			55.589	13.307	81.795	1.00	25.66
ATOM ATOM	5383	ō	HIS B			56.087	12.589	80.923	1.00	
ATOM	5384	N		299		54.901	14.424	81.496	1.00	27.02
MOTA	5385	CD	PRO B			54.388	15.424	82.447	1.00	
ATOM	5386	CA	PRO B			54.616	14.864	80.127	1.00	
ATOM	5387	CB		299		53.952	16.232	80.342	1.00	
ATOM	5388	CG	PRO B	299		54.583	16.696	81.656	1.00	
ATOM	5389	C	PRO B			55.815	14.930	79.194		27.08
ATOM	5390	Ō	PRO B			55.738	14.472	78.057		28.58
ATOM	5391	N		300		56.925	15.484	79.668		27.30
ATOM	5392	CA	TYR B	300		58.114	15.593	78.824		27.17
ATOM	5393	CB	TYR B	300		59.173	16.496	79.466		31.65
ATOM	5394	ĊG				58.684	17.851	79.921		31.61
ATOM	5395	CD1	TYR B	300		57.414	18.318	79.582		32.71
MOTA	5396	CE1				56.971	19.568	80.014		38.52
ATOM	5397	CD2				59.499	18.670	80.701		30.92
ATOM	5398	CE2				59.072	19.917	91.138		32.13
MOTA	5399	CZ	TYR B	300		57.808	20.361	80.795		39.17
ATOM	5400	OH	TYR B			57.374	21.585	81.252		43.90
ATOM	5401	С	TYR B			58.731	14.218	78.572		25.20 25.15
ATOM	5402	0	TYR B			59.106	13.894	77.445 79.628		20.55
MOTA	5403	N	ALA B			58.845	13.419	79.528		22.12
MOTA	5404	CA	ALA B			59.414	12.080 11.388	80.874		17.09
atom	5405	CB	ALA B			59.417	11.260	78.505		15.20
MOTA	5406	C	ALA B			58.608 59.161	10.629	77.613		17.12
ATOM	5407	0	ALA B			57.295	11.290	78.667		18.02
MOTA	5408	N	LEU B			56.381	10.553	77.815		19.88
ATOM	5409	CA	LEU B			54.957	10.702	78.362		21.72
MOTA	5410	CB	LEU B			53.767	10.118	77.606		31.08
ATOM	5411 5412	CD1				52.576	9.980	78.549		31.35
MOTA	5413	CD3	LEU B	302		53.434	11.011	76.415	1.00	27.11
MOTA MOTA	5414	C D	LEU B	302		56.445	10.988	76.351		21.13
	5415	Ö	LEU B			56.473	10.149	75.449	1.00	21.76
MOTA ATOM	5416	N	ALA B	303		56.472	12.293	76.115		17.69
ATOM	5417	CA	ALA B	303		56.516	12.811	74.755		17.79
ATOM	5418	CB	ALA B	303		56.357	14.326	74.780		24.50
ATOM	5419	С	ALA B			57.803	12.425	74.040		20.84
ATOM	5420	0	ALA B			57.781	11.968	72.891	1.00	19.33
MOTA	5421	N	ARG B			58.930	12.594	74.723		21.08
ATOM	5422	CA	ARG B			60.215	12.269	74.120		25.56
ATOM	5423	CB	ARG B			61.375	12.825	74.962	1.00	18.37
MOTA	5424	CG	ARG B			61.427	14.356	75.072	1.00	23.12
ATOM	5425	CD	ARG B	304		62.797	14.758	75.624		29.00
ATOM	5426	NE	ARG E	304		63.073	13.938	76.789	1.00	33.28
ATOM	5427	CZ	ARG B			64.271	13.689	77.283	1.00	30.24 24.98
ATOM	5428	NH:				65.363	14.194	76.723	1.00	36.15
ATOM	5429		ARG E	304		64.365	12.896	78.333	1.00	20.46
ATOM	5430	C	ARG E			60.406	10.775	73.922	1.00	18.70
ATCM	E431	0	ARG E			60.850	10.338	72.868 74.937	1.00	22.48
ATOM	5432	N	ALA E			60.070	9.988	74.845	1 00	19.70
ATOM .		CA	ALA E			60.226	8.542		1.00	24.24
ATOM	5434	CB	ALA E			59.847	7.894		1.00	15.82
ATOM	5435	С	ALA E	3 305		59.407	7.930	13.711	1.00	15.01

MOTA	5436	0	ALA B	305	59.938	7.184	72.888	1.00	19.12
MOTA	5437	N		306	58.113	8.230	73.659		18.65
	5438	CA		306	57.298	7.668	72.600		19.57
ATOM				306	55.800	7.856	72.893		18.26
ATOM	5439	CB			55.301	6.911	73.953		20.71
ATOM	5440	CG	TRP B	306					23.94
ATOM	5441	CD2		306	54.087	7.025	74.708		
MOTA	5442	CE2		306	53.988	5.870	75.513		24.73
ATOM	5443	CE3	TRP B	306	53.073	7.991	74.780		26.01
ATOM	5444	CD1	TRP B	306	55.872	5.721	74.326		20.04
ATOM	5445	NE1	TEP B	306	55.092	5.093	75.260		19.17
ATOM	5446	CZ2	TRP B	306	52.912	5.655	76.385	1.00	28.04
ATOM	5447	CZ3		306	52.001	7.779	75.646	1.00	28.68
ATOM	5448	CH2	TRP B	306	51.930	6.619	76.437	1.00	31.22
MOTA	5449	C		306	57.665	8.223	71.226	1.00	23.48
ATOM	5450	0	TRP B	306	57.416.	7.574	70.212	1.00	22.38
MOTA	5451	N	THR B	307	58.262	9.412	71.176	1.00	22.36
ATOM	5452	CA		307	58.672	9.953	69.880	1.00	25.94
ATOM	5453	СВ	THR B	307	59.143	11.417	69.986	1.00	25.88
	5454	OG1		307	58.015	12.261	70.258		21.07
MOTA	5455	CG2	THR B	307	59.827	11.864	68.686		22.52
MOTA	5456	C	THR B	307	59.815	9.078	69.350		30.09
ATOM		0		307	59.922	8.834	68.144		25.82
ATOM	5457				60.664	8.596	70.258		27.54
ATOM	5458	N	LEU B	308	61.773	7.734	69.857		26.76
MOTA	5459	CA		308	62.691	7.134	71.054		24.24
ATOM	5460	CB	LEU B				71.718		31.16
ATOM	5461	CG	LEU B	308	63.420	8.614			24.71
MOTA	5462	CD1	LEU B		64.282	8.147	72.877		-
MOTA	5463	CD2	LEU B		64.289	9.325	70.700		24.59
ATOM	5464	С	LEU B	308	61.184	6.443	69.287		27.20
MOTA	5465	0	LEU B	308	61.609	5.961	68.234		23.52
MOTA	5466	N	ILE B	309	60.190		69.980		25.10
ATOM	5467	CA	ILE B	309	59.537	4.679	69.530		25.14
MOTA	5468	CB	ILE B	309	58.387	4.266	70.485		27.05
ATOM	5469	CG2	ILE B	309	57.646	3.058	69.926		23.57
ATOM	5470	CG1	ILE B	309	58.952	3.947	71.868		22.98
MOTA	5471	CD1	ILE B	309	59.927	2.793	71.868		24.25
ATOM	5472	С	ILE B	309	58.958	4.885	68.133		25.41
ATOM	5473	0	ILE B	309	59.177	4.064	67.243		22.13
MOTA	5474	N	TRP B	310	58.232	5.984	67.943		27.45
MOTA	5475	CA	TRP B	310	57.618	6.266	66.648		29.27
ATOM	5476	CB	TRP B		56.721	7.505	66.715		27.00
ATOM	5477	CG	TRP B	310	56.112	7.847	65.378		28.26
ATOM	5478	CD2	TRP B	310	55.172	7.061	64.633	1.00	
ATOM	5479	CE2	TRP B	310	54.947	7.729	63.408	1.00	
ATOM	5480	CE3	TRP B	310	54.500	5.856	64.877		29.85
MOTA	5481	CD1	TRP B	310	56.406	Р.929	64.597	1.00	29.76
ATOM	5482	NE1	TRP B	310	55.713	865	63.415		26.71
ATOM	5483	CZ2	TRP B		54.076	.234	62.429	1.00	28.23
ATCM	5484	CZ3	TRP B		53.636	5.362	63.901	1.00	30.24
ATOM	5485	CH2	TRP B		53.433	6.053	62.692	1.00	27.63
ATOM	5486	C	TRP B		58.629	6.424	65.520	1.00	30.16
ATOM	5487	õ	TRP B		58.378	5.964	64.410	1.00	30.04
ATOM	5488	N	CYS B		59.762	7.069	65.793	1.00	24.26
ATOM	5489	CA	CYS B		60.782	7.233	64.764		27.97
	5490	CB	CYS B		61.893	8.157	65.252		28.21
MOTA		SG	CYS B		61.422	9.905	65.381		33.38
ATOM	5491	C	CYS B		61.380	5.886	64.351		30.02
ATOM	5492		CYS B		61.670	5.660	63.172		25.45
ATCM	5493	0	GLU B		61.570	5.001	65.327		31.59
ATOM	5494	N			62.111	3.669	65.067		33.48
ATOM	5495	CA	GLU B		62.111	2.843	66.352		34.78
ATCM	5496	CB	GLU B			2.307	66:758		39.45
ATOM	5497	CG	GLU B		63.487		65.675		40.11
ATOM	5498	CD	GLU B		64.171	1.513	65.081		43.69
ATOM	5499	OE1	GLU B	312	63.539	0.614			39.26
ATOM	5500		GLU B	312	65.358	1.782	65.437		
ATCM	5501	С	GLU B	312	61.197	2.959	64.080	1.00	29.97

ATOM	5502	0	GLU B 312		61.640	2.497	63.035	1.00 31.38
MOTA	5503	N	LEU B 313		59.919	2.865	64.438	1.00 26.70
ATOM	5504	CA	LEU B 313		58.930	2.203	63.598	1.00 26.73
ATOM	5505	CB	LEU B 313		57.571	2.173	64.297	1.00 25.83
MOTA	5506	CG	LEU B 313		57.429	1.224	65.477	1.00 35.18
ATOM	5507		LEU B 313		56.063	1.434	66.130	1.00 32.49
MOTA	550.8	CD2	LEU B 313		57.595	-0.215	64.989	1.00 29.71
ATOM	5509	С	LEU B 313		58.768	2.866	62.248	1.00 29.03
MOTA	5510	0	LEU B 313		58.716	2.187	61.228	1.00 25.39
MOTA	5511	N	SER B 314		58.677	4.194	62.263	1.00 30.13 1.00 34.06
MOTA	5512	CA	SER B 314	•	58.498 58.206	5.006	61.060 61.445	1.00 31.15
ATOM	5513	CB	SER B 314		57.041	6.456 6.537	62.234	1.00 48.58
ATOM	5514	OG	SER B 314 SER B 314		59.707	5.003	60.151	1.00 31.84
ATOM	5515	0	SER B 314		59.632	5.469	59.026	1.00 34.15
ATOM	5516 5517	N	GLY B 315		60.831	4.515	60.655	1.00 31.81
ATOM ATOM	5518	CA	GLY B 315		62.036	4.485	59.848	1.00 37.27
ATOM	5519	C	GLY B 315		62.659	5.851	59.616	1.00 39:93
ATOM	5520	ō	GLY B 315		63.363	6.054	58.624	1.00 39.79
ATOM	5521	N	ARG B 316		62.422	6.798	60.518	1.00 38.22
ATOM	5522	CA	ARG B 316		63.004	8.121	60.336	1.00 38.66
MOTA	5523	CB	ARG B 316		61.908	9.184	60.275	1.00 40.20
MOTA	5524	CG	ARG B 316		61.089	9.345	61.520	1.00 39.00
ATOM	5525	CD	ARG B 316		60.032	10.398	61.284	1.00 42.13
MOTA	5526	NE	ARG B 316		59.002	9.954	60.352	1.00 45.09 1.00 40.84
MOTA	5527	CZ	ARG B 315		58.075	10.754 12.033	59.838 60.170	1.00 48.44
MOTA	5528		ARG B 316		58.064 57.150	10.278	59.014	1.00 35.96
ATOM	. 5529		ARG B 316 ARG B 316	•	64.031	8.467	61.408	1.00 39.03
ATOM	5530 5531	C	ARG B 316		63.952	7.988	62.539	1.00 34.34
MOTA ATOM	5532	O N	GLU B 317		65.003	9.296	61.035	1.00 39.58
MOTA	5533	CA	GLU B 317	•	66.074	9.697	61.943	1.00 43.35
ATOM	5534	СВ	GLU B 317		67.142	10.509	61.203	1.00 49.34
ATOM	5535	CG	GLU B 317		67.609	9.910	59.884	1.00 57.04
ATOM	5536	CD	GLU B 317		66.546	10.009	58.798	1.00 62.79
MOTA	5537	OE1	GLU B 317		66.146	11.149	58.467	1.00 63.46
ATOM	5538	OE2			66.108	8.954	58.280 63.100	1.00 64.46 1.00 41.58
MOTA	5539	С	GLU B 317		65.555 64.658	10.528 11.356	62.939	1.00 39.74
ATOM	5540	0	GLU B 317 VAL B 318		66.118	10.301	64.278	1.00 35.38
ATOM	5541 5542	N CA	VAL B 318 VAL B 318		65.706	11.049	65.448	1.00 38.76
ATOM ATOM	5543	CB	VAL B 318	•	66.000	10.265	66.750	1.00 42.28
ATOM	5544	CG1			65.560	11.080	67.962	1.00 38.26
ATOM	5545		VAL B 318		65.287	8.916	66.722	1.00 39.99
ATOM	5546	C	VAL B 318		66.459	12.370	65.478	1.00 41.82
.TOM	5547	0	VAL B 318		67.689	12.395	65.570	1.00 37.20
MOTA	5548	N	PRO B 319		65.735	13.491	65.356	1.00 43.18
MOTA	5549	CD	PRO B 319		64.290	13.672	65.155	1.00 41.90 1.00 44.31
ATOM	5550	CA	PRO B 319		66.402	14.792	65.388 65.181	1.00 44.51
MOTA	5551	CB	PRO B 319		65.241	15.763 15.011	65.795	1.00 43.34
ATOM	5552	CG	PRO B 319		64.079 67.086	14.965	66.741	1.00 44.62
ATOM	5553	C	PRO B 319 PRO B 319		66.541	14.565	67.771	1.00 43.75
ATOM	5554	O N	GLU B 320		68.277	15.552	66.735	1.00 44.16
ATOM	5555 5556	CA	GLU B 320		69.029	15.762	67.967	1.00 45.92
MOTA MOTA	5557	CB	GLU B 320		70.381	16.406	67.663	1.00 50.87
ATOM	5558	CG	GLU B 320		71.165	16.768	68.919	1.00 53.71
ATOM	5559	CD	GLU B 320		72.455	17.505	68.620	1.00 57.75
ATOM	5560	0E1			73.161	17.874	69.583	1.00 56.37
ATOM	5561	ΘE2	GLU B 320		72.762	17.714	67.427	1.00 60.07
ATOM	5562	С	GLU B 320		68.311	16.625	68.995	1,00 44.42
ATOM	5563	0	GLU B 320		68.244	16.279	70.168	1.00 42.32 1.00 42.50
ATCM	5564	N	LYS B 321		67.778	17.753	68.550	1.00 42.30
ATOM	5565	CA	LYS B 321		67.102	18.672	69.448	1.00 45.24
MOTA	5566	CB	LYS B 321		67.853	20.000	69.503 68.195	
MOTA	5567	CG	LYS B 321		67.890	20.802		1.00 01.40

ATOM	5568	CD	tve :	321	68.700	20.144	67.057	1.00 57.24
					- -			
atom	5569	CE	LYS :		67.936	19.062	66.280	1.00 55.24
MOTA	5570	NZ	LYS I	B 321	66.738	19.588	65.558	1.00 55.31
ATOM	5571	С	LYS !		65.662	18.971	69.098	1.00 43.44
MOTA	5572	0	LYS I		65.211	18.736	67.978	1.00 43.03
ATOM	5573	N	LEU :	B 322	64.947	19.512	70.076	1.00 39.45
ATOM	5574	CA	LEU !		63.563	19.885	69.875	1.00 40.31
ATOM	5575	CB	LEU I		62.846	20.034	71.215	1.00 40.88
ATOM	5576	CG	LEU I	B 322	62.943	18.901	72.234	1.00 40.09
ATOM	5577		LEU :		62.001	19.175	73.388	1.00 38.17
ATOM	5578	CDZ	LEU :		62.588	17.596	71.580	1.00 41:56
ATOM	5579	С	LEU I	B 322	63.615	21.244	69.197	1.00 41.23
MOTA	5580	0	LEU :	B 322	64.466	22.070	69.531	1.00 39.22
ATOM	5581	N	ASN I		62.735	21.473	68.233	1.00 40.04
ATOM	5582	CA	ASN I	B 323	62.703	22.771	67.582	1.00 43.32
ATOM	5583	CB	ASN I	B 323	61.985	22.707	66.234	1.00 41.53
					60.617	22.085	66.335	1.00 41.89
ATOM	5584	CG	ASN I					
ATOM	5585	OD1	ASN I	B 323	59.889	22.308	67.304	1.00 39.79
ATOM	5586	ND2	ASN :	3 3 2 3	60.243	21.317	65.317	1.00 40.43
	5587	С	ASN		61.949	23.690	68.532	1.00 44.76
MOTA								
MOTA	5588	0	ASN :		61.402	23.237	69.539	1.00 45.80
MOTA	5589	N	ASN I	B 324	61.902	24.973	68.210	1.00 46.85
ATOM	5590	CA	ASN :	B 324	61.234	25.930	69.076	1.00 47.60
						•		
atom	5591	CB	ASN :		61.460	27.348	68.549	1.00 50.87
ATOM	5592	CG	ASN :	B 324	61.089	28.407	69.562	1.00 55.06
ATOM	5593	oni	ASN 1	B 324	59.925	28.565	69.919	1.00 60.68
					62.091	29.131	70.048	1.00 59.17
ATOM	5594		'ASN '					
ATOM	5595	С	ASN :	B 324	59.740	25.664	69.249	1.00 43.97
ATOM	5596	0	ASN :	B 324	59.190	25.898	70.322	1.00 41.33
	5597	N	LYS		59.087	25.168	68.201	1.00 43.49
ATOM								
ATOM	5598	CA	LYS :		57.655	24.892	68.264	1.00 45.95
MOTA	5599	CB	LYS :	B 325	57.112	24.415	66.909	1.00 48.97
ATOM	5600	CG	LYS :	B 325	57.212	25.400	65.731	1.00 53.41
					58.582	25.386	65.024	1.00 58.77
ATOM	5601	CD	LYS					
ATOM	5602	CE	LYS :	B 325	59.700	26.013	65.846	1.00 58.10
MOTA	5603	NZ	LYS	B 325	61.024	25.906	65.178	1.00 53.38
ATOM	5604	С	LYS		57.368	23.822	69.309	1.00 45.79
ATOM	5605	0	LYS :		56.375	23.891	70.034	1.00 43.91
ATOM	5606	N	ALA :	B 326	58.245	22.829	69.381	1.00 44.28
ATOM	5607	CA	ALA :	B 326	58.078	21.746	70.336	1.00 44.25
					59.013	20.589	69.986	1.00 41.44
ATOM	5608	CB	ALA :					
ATOM	5609	С	ALA	B 326	58.342	22.233	71.757	1.00 40.92
ATOM	5610	0	ALA:	326	57.639	21.843	72.688	1.00 39.02
ATOM	5611	N	LYS		59.352	23.085	71.922	1.00 38.14
						23.603	73.246	1.00 40.11
ATOM	5612	CA	LYS		59.689			
ATCM	5613	CB		B 327	60.892	24.552	73.178	1.00 42.36
ATOM	5614	CG	LYS	B 327	62.174	23.922	72.: 59	1.00 45.78
	5615	CD	LYS		63.325	24.926	72.675	1.00 48.46
ATOM								
ATOM	5616	CE	LYS :		64.594	24.367	72.031	1.00 49.62
ATOM	5617	NZ	LYS :	B 327	65.108	23.139	72.700	1.00 48.53
ATOM	5618	C		B 327	58.500	24.338	73.841	1.00 39.17
								1.00 38.87
ATOM	5619	0		B 327	58.132	24.112	74.994	
ATOM	5620	N	GLU :	B 328	57.898	25.215	73.048	1.00 41.06
ATOM	5621	CA		B 328	56.750	25.986	73.512	1.00 42.35
	5622	CB		B 328	56.357	27.028	72.463	1.00 44.02
ATOM								
ATOM	5623	CG	GLU :		57.434	28.084	72.258	1.00 44.80
MOTA	5624	CD	GLU :	B 328	57.835	28.742	73.569	1.00 48.40
ATOM	5625		GLU		56.949	29.317	74.237	1.00 51.20
						28.680	73.935	1.00 47.81
ATOM	5626		GLU		59.029	•		
ATOM	5627	C	GLU :		55.569	25.087	73.839	1.00 38.67
ATOM	5628	0	GLU	3 328	54.794	25.377	74.750	1.00 41.20
	5629	Ŋ	LEU		. 55.429	23.999	73.090	1.00 35.31
ATOM							77 77 4	
ATOM	5630	CA	LEU		54.349	23.056	73.334	1.00 32.69
ATCM	5631	CB	LEU	B 329	54.404	21.900	72.334	1.00 35.06
ATOM	5632	CG		B 329	53.344	20.813	72.544	1.00 35.01
					51.958	21.430	72.419	1.00 36.90
ATOM	5633	Titl	LEU	9 369	31.336	21.400	413	2.00 30.30

ATOM	5634	CD2	LEU B	329	53.521	19.699	71.525	1.00 32.36
ATOM	5635	C	LEU B		54.504	22.507	74.747	1.00 34.07
ATOM	5636	ō	LEU B		53.621	22.664	75.583	1.00 30.53
ATOM	5637	N		330	55.640	21.873	75.013	1.00 32.74
ATOM	5638	CA		330	55.889	21.311	76.330	1.00 34.99
ATOM	5639	CB	LEU B		57.267	20.642	76.382	1.00 37.01
MOTA	5640	CG	LEU B		57.466	19.428	75.470	1.00 34.91
MOTA	5641		LEU B		58.832	18.817	75.728	1.00 34.69
ATOM	5642		LEU B		56.369	18.396	75.742	1.00 34.10
MOTA	5643	C	LEU B		55.789	22.363	77.429	1.00 37.12
ATOM	5644	0	LEU B		55.210	22.110	78.482	1.00 34.19
MOTA	5645	N	LYS B		56.353	23.540	77.186	1.00 34.34
MOTA	5646	CA	LYS B		56.313	24.604	78.181	1.00 43.35
ATOM	5647	CB	LYS B		57.162	25.788	77.712	1.00 46.25
ATOM	5648	CG	LYS B		58.658	25.496	77.685	1.00 51.07
ATOM	5649	CD	LYS B		59.482	26.610	77.021	1.00 49.96
MOTA	5650	CE	LYS B		59.371	27.957	77.733	1.00 53.08
MOTA	5651	NZ	LYS B		58.013	28.569	77.662	1.00 56:18 1.00 42.06
MOTA	5652	С	LYS B		54.892	25.069	78.494	1.00 42.00
MOTA	5653	0	LYS B		54.588	25.416	79.631 77.492	1.00 44.54
MOTA	5654	N	SER B		54.018	25.056	77.679	1.00 46.58
MOTA	5655	CA	SER B	332	52.639	25.502 25.751	76.329	1.00 48.75
MOTA	5656	CB	SER B		51.975	24.527	75.646	1.00 49.55
MOTA	5657	OG	SER B		51.769 51.780	24.527	78.451	1.00 49.56
ATOM	5658	C	SER B		50.618	24.791	78.749	1.00 46.67
MOTA	5659	0	SER B		52.341	23.345	78.770	1.00 50.55
MOTA	5660	N	ILE B		51.586	22.326	79.488	1.00 51.93
MOTA	5661 5662	CA CB	ILE B		52.259	20.945	79.376	1.00 51.82
ATOM	5663	CG2			51.447	19.902	80.134	1.00 50.29
MOTA MOTA	5664	CG1	ILE B		52.359	20.539	77.905	1.00 52.18
ATOM	5665	CD1	•		53.044	19.210	77.693	1.00 55.42
MOTA	5666	c	ILE B		51.367	22.634	80.964	1.00 51.45
ATOM	5667	ō			52.180	23.290	81.614	1.00 50.96
ATOM	5668	N	ASP B	334	50.245	22.141	81.472	1.00 54.05
ATOM	5669	CA	ASP B		49.850	22.306	82.865	1.00 58.15
MOTA	5670	CB	ASP B		48.320	22.216	82.959	1.00 60.38 1.00 63.85
ATOM	5671	CG	ASP B		47.751	20.972	82.262 82.710	1.00 59:16
MOTA	5672		ASP 3		48.017	19.833 21.138	81.252	1.00 59.71
MOTA	5673		ASP B		47.033 50.506	21.136	83.701	1.00 55.47
ATOM	5674	C	ASP B		49.833	20.291	84.171	1.00 54.08
ATOM	5675	0	ASP B		51.816	21.307	83.906	1.00 54.60
MOTA	5676	N	PHE B		52.524	20.266	84.641	1.00 56.60
MOTA	5677	CA	PHE B		53.718	19.784	83.811	1.00 53.01
MOTA	5678 5679	CB CG	PHE B		54.522	18.717	84.482	1.00 49.30
MOTA MOTA	5686		PHE B		53.898	17.589	85.008	1.00 45.61
ATOM	5681	CD2		335	55.901	18.843	84.605	1.00 46.83
ATOM	5682	CE1			54.637	16.600	85.651	1.00 45.95
ATOM	5683	CE2			56.651	17.860	85.247	1.00 46.02
ATOM	5684	CZ	PHE B		56.018	16.737	85.772	1.00 46.08
ATOM	5685	С	PHE B	335	52.971	20.559	86.072	1.00 57.29
ATOM	5686	0	PHE B	335	52.197	20.378	87.012	1.00 63.54
MOTA	5687	N	GLU B		54.223	20.983	86.229	1.00 55.21
MOTA	5688	CA	GLU B		54.818	21.286	87.535	1.00 60.30 1.00 64.95
ATOM	5689	ĊВ	GLU B		53.783	21.846	88.517	1.00 64.93
ATOM	5690	CG	GLU E		54.375	22.225 22.882	89.867 90.787	1.00 71.30
ATCM	5691	CD	GLU E		53.363 52.796	23.925	90.787	1.00 75.32
MOTA	5692	OE1	GLU E	3 336	53.137	22.361	91.901	1.00 76.84
ATOM	5693	OE2		3 3 3 5	55.485	20.058	88.146	1.00 55.66
MOTA	5694	C	GLU E		54.823	19.093	88.529	1.00 49.97
ATOM	5695	0	GLU E		56.807	20.125	88.240	1.00 54.26
ATOM	5696	N	GLU E		57.630	19.047	88.767	1.00 54.35
ATCM	5697	CA CB	GLU I		59.101	19.457	88.635	1.00 54.08
ATOM	5698 5699	CG	GLU I		60.074	18.315	88.514	
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ATOM	5766	0	ARG B	344	64.328	19.269	81.720	1.00 38.73
ATOM	5767	N	SER B		65.618	20.784	82.783	1.00 42.44
MOTA	5768	CA	SER B		65.740	21.677	81.637	1.00 41.74
ATOM	5769	СВ	SER B		66.661		81.993	1.00 43.47
	5770	OG	SER B		67.956		82.351	1.00 46.96
MOTA			SER B		66.244		80.375	1.00 36.32
ATOM	5771	·C			65.840		79.273	1.00 35.70
MOTA	5772	0 -	SER B				80.534	1.00 33.70
MOTA	5773	N	TYR B		67.117 67.661		79.391	1.00 34.77
ATOM	5774	CA	TYR B				79.877	1.00 34.77
MOTA	5775	CB	TYR B		68.660			1.00 34.27
MOTA	5776	CG	TYR E		. 68.054		80.774	
MOTA	5777	CD1			67.433		80.240	1.00 37.62 1.00 36.73
MOTA	5778	CE1	TYR E		66.843		81.077	
MOTA	5779	CD2	TYR E		68.072		82.157	1.00 36.40
ATOM	5780	CE2	TYR E		67.489		82.999	1.00 36.54
MOTA	5781	CZ	TYR E		66.878		82.457	1.00 36.54
ATOM	5782	ОН	TYR E		66.310		83.306	1.00 33.35
ATOM	5783	С	TYR E		66.563		78.570	1.00 36.26
ATOM	5784	0	TYR E		66.719		77.367	1.00 40.50
ATOM	5785	N	MET E		65.445		79.214	1.00 32.72
ATOM	5786	CA	MET E	347	64.346		78.516	1.00 35.43
ATOM	5787	CB	MET E	347	63.280		79.513	1.00 34.36
ATOM	5788	CG	MET E		63.819		80.635	1.00 28.32
ATOM	5789	SD	MET E	347	62.515		81.669	1.00 34.47
ATOM	5790	CE	MET E		61.654		82.142	1.00 39.60
MOTA	5791	С	MET E		63.701		77.465	1.00 39.04
MOTA	5792	0	MET E		63.060		76.540	1.00 37.38
ATOM	5793	И	LEU E		63.857		77.606 76.645	1.00 39.21 1.00 40.81
MOTA	5794	CA	LEU E		63.272		77.339	1.00 36.87
MOTA	5795	CB	LEU E		62.800 61.690		78.384	1.00 30.07
MOTA	5796	CG	LEU E		61.50		.79.032	1.00 43.41
ATOM	5797		LEU E		60.39		77.741	1.00 40.47
MOTA	5798 5799	C	LEU I		64.289		75.573	1.00 41.13
MOTA MOTA	5800	Ö	LEU E		64.018		74.711	1.00 38.93
ATOM	5801	N	GLU E		65.45		75.632	1.00 37.70
ATOM	5802	CA	GLU I		66.52		74.681	1.00 42.48
ATOM	5803	CB	GLU I		67.85		75.422	1.00 45.02
ATOM	5804	CG	GLU I		67.834	22.035	76.493	1.00 53.82
ATOM	5805	מכ	GLU I		67.483	3 23.402	75.938	1.00 57.46
ATOM	5806	OE1			68.21	23.885	75.044	1.00 59.62
ATOM	5807	OE2			66.48	23.993	76.397	1.00 57.91
ATOM	5808	С	GLU I	3 349	66.70	9 19.638	73.664	1.00 43.57
ATOM	5809	0	GLU i	3 3 4 9	66.57		72.459	1.00 41.26
ATOM	5810	N	THR I	3 3 5 0	67.02		74.161	1.00 41.95
ATOM	5811	CA	THR I		67.26		73.298	1.00 40.02
MOTA	5812	CB		350	68.68		73.504	1.00 43.08
ATOM	5813	OG1			68.89		74.894	1.00 41.07
ATOM	5814	CG2			69.70		73.049	1.00 45.05
ATOM	5815	С		350	66.27		73.510	1.00 37.56
MOTA	5816	0		350	65.75		74.611	1.00 33.64 1.00 32.86
ATOM	5817	N	LEU I		66.04		72.445	1.00 32.00
ATOM	5818	CA	LEU 1		65.12		72.475 71.053	1.00 33.60
ATOM	5819	CB		351	64.77 63.70		70.312	1.00 35.31
MOTA	5820	CG		351	63.55		68.904	1.00 37.88
ATOM	5821		LEU I		62.39		71.068	1.00 39.36
ATOM	5822		LEU		65.66		73.240	1.00 33.33
ATOM	5823	C		351	64.95		74.046	1.00 31.48
ATOM	5824	O		B 351	66.91		72.981	1.00 29.58
ATOM	5825	И		352	67.52		73.633	1.00 25.33
ATOM	5826	CA		B 352	68.45		72.647	
ATOM	5827 5828	CB CG		B 352 B 352	67.77		71.326	1.00 39.29
ATOM	5828 5829	CD		B 352	68.70		70.294	1.00 42.25
ATOM ATOM	5830	CE		B 352	69.11		70.655	1.00 46.22
ATOM	5831	NZ		B 352	69.83		69.516	1.00 44.15
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MOTA	5832	С	LYS B	352		68.295	11.983	74.878	1.00 36.30
							12.931	74.865	1.00 36.65
ATOM	5833	0	LYS 3			69.086			
MOTA	5834	N	ASP B	353		68.049	11.275	75.96 7	1.00 30.01
	5835	CA		353		68.757	11.569	77.188	1.00 33.99
ATOM									
MOTA	5836	CB	ASP B	353		67.852	11.308	78.394	1.00 38.57
MOTA	5837	CG	ASP B	353		67.134	9.986	78.315	1.00 43.90
MOTA	5838	OD1	ASP B	353		66.034	9.851	78.926	1.00 22.39
MOTA	5839	OD2	ASP B	353		67.679	9.078	77.649°	1.00 50.42
		C		353		70.022	10.723	77.202	1.00 35.83
MOTĄ	5840								
ATOM	5841	Ο.	ASP B	353		70.189	9.833	76.368	1.00 23:71
MOTA	5842	N	PRO B	354		70.954	11.025	78.116	1.00 36.36
				354		70.928	12.093	79.132	1.00 38.28
ATÇM	5843	CD	PRO B						
ATOM	5844	CA	PRO B	354	•	72.205	10.277	78.212	1.00 33.62
MOTA	5845	CB	PRO B	354		73.003	11.104	79.213	1.00 34.46
						71.896	11.556	80.164	1.00 38.08
ATOM	5846	CG		354					
ATOM	5847	C	PRO B	354		71.924	8.883	78.733	1.00 33.62
ATOM	5848	0	PRO B	354		70.894	8.643	79.366	1.00 24.82
ATOM	5849	N	TRP B			72.833	7.954	78.468	1.00 31.76
ATOM	5850	CA	TRP B	355		72.635	6.611	78.969	1.00 30.01
ATOM	5851	CB		355		73.653	5.655	78.359	1.00 34.02
									1.00 44.37
ATOM	5852	CG		355		73.025	4.378	77.910	
MOTA	5 85 3	CD2	TRP B	355		73.263	3.072	78.436	1.00 45.39
ATOM	5854	CE2	TRP B			72.418	2.177	77.734	1.00 44.31
ATOM	5855	CE3	TRP 3			74.107	2.569	79.432	1.00 47.19
MOTA	5856	CD1	TRP B	355		72.073	4.230	76.935	1.00 42.18
ATOM	5857	NEl	TRP B			71.704	2.910	76.826	1.00 37.84
ATOM	5858	CZ2	TRP B			72.395	0.808	77.999	
ATOM	5859	CZ3	TRP B	355		74.084	1.207	79.694	1.00 50.83
MOTA	5860	CH2		355		73.231	0.341	78.979	1.00 48.73
						72.819	6.685	80.485	1.00 30.67
atom	5861	С		355					
ATOM	5862	0	TRP B	355		73.622	7.474	80.981	1.00 26.93
MOTA	5863	N	ARG B	356		72.061	5.880	81.218	1.00 24.96
			ARG B			72.147	5.848	82.671	1.00 23.57
MOTA	5864	CA							
ATOM	5865	CB	ARG B	356		70.811	6:319	83.257	1.00 24.71
ATOM	5866	CG	ARG B	356		70.534	7.795	82.941	1.00 23.66
			ARG B			69.067	8.212	83.055	1.00 20.14
ATOM	5867	CD							
ATOM	5868	NE		356		68.926	9.610	82.642	1.00 20.59
ATOM	5869	CZ	ARG B	356		67.787	10.192	82.288	1.00 25.41
	5870			356		66.644	9.508	82.287	1.00 17.01
MOTA		NHI							
MOTA	5871	NH2	ARG B	356		67.796	11.464	81.910	1.00 20.07
ATOM	5872	С	ARG B	356		72.481	4.410	83.085	1.00 26.57
	5873	Ö		356		71.610	3.641	83.485	1.00 23.02
ATOM									
ATOM	5874	IJ	GLY B	357		73.761	4.063	82.978	1.00 23.92
ATOM	5875	CA	GLY B	357		74.186	2.712	83.294	1.00 25.54
ATOM	5876	С	GLY B			74.796	2.464	84.657	1.00 24.35
ATOM	5877	0	GLY B			74.523	3.161	85.628	1.00 25.88
ATCM	5878	N	GLY B	358		75.638	1.444	84.718	1.00 24.32
ATOM	5879	CA	GLY B			76.282	1.070	85.960	1.00 23.56
						76.412	-0.441	85.924	1.00 29.26
ATCM	5880	С	GLY B						
ATCM	5881	Ö	GLY B	358		76.146	-1.051	84.889	1.00 23.71
ATCM	5882	N	GLU B	359		76.814	-1.051	87.033	1.00 27.64
						76.955	-2.503	87.078	1.00 32.15
ATOM	5883	CA	GLU B						
ATOM	5884	CB	GLU B	359		77.822	-2.936	88.265	1.00 30.40
ATOM	5885	CG	GLU B			77.125	-2.772	89.601	1.00 31.23
						77.844	-3.479	90.741	1.00 37.96
ATOM	5886	CD	GLU B						
atcm	5887)El	GLU B	359		77.28 7	-3.521	91.861	1.00 33.89
ATOM	5888	OE2		359		78.959	-3.990	90.520	1.00 37.40
						75.571	-3.122	87.261	1.00 31.35
ATOM	5889	С	GLU B						
ATOM	5890	0	GLU B	359		74.612	-2.429	87.588	1.00 25.15
ATCM	5891	N	VAL B			75.482	-4.428	87.053	1.00 29.61
						74.230	-5.147	87.251	1.00 26.21
ATCM	5892	CA	VAL B						
ATOM	58 9 3	CЗ	VAL B	360		74.035	-6.270	86.200	1.00 28.47
ATOM	5894	CG1				72.764	-7.045	86.492	1.00 22.74
		CG2	VAL B			73.969	-5.670	84.796	1.00 29.70
ATOM	5895								
ATOM	5896	С	VAL B	360		74.342	-5.784	88.625	1.00 26.CO
ATCM	5897	၁	VAL B	360		75.150	-6.693	88.821	1.00 27.55
		_				· -		•	·

ATOM	5898	N	ARG !	B 3	361	73.553	-5.289	89.575	1.00 26.45
			ARG I			73.558	-5.821	90.935	1.00 28.47
ATOM	5899	CA							
ATOM	5900	CB	ARG I	B 3		72.479	-5.146	91.787	1.00 30.55
ATOM	5901	CG	ARG I	B 3	361	72.937	-3.877	92.485	1.00 32.61
ATOM	5902	CD	ARG !			71.749	-3.163	93.117	1.00 35.00
						70.858	-2.617	92.094	
ATOM	5903	NE	ARG I						1.00 30.31
ATOM	5904	CZ	ARG 1	В 3	361	69.753	-1.925	92.350	1.00 29.45
ATOM	5905	NH1	ARG I	B 3	361	69.385	-1.689	93.605	1.00 18.49
			ARG I			69.041	-1.428	91.348	1.00 30.49
ATOM	5906								
MOTA	5907	С	ARG 1	В		73.351	-7.322	91.001	1.00 30.17
ATOM	5908	0	ARG I	B 3	361	72.665	-7.910	90.168	1.00 23.60
ATOM	5909	N	LYS I			73.949	-7.922	92.022	1.00 33.09
						73.864	-9.351	92.272	1.00 36.94
ATOM	5910	CA	LYS						
ATOM	5911	CB	LYS !	В 3	362	74.687	-9.706	93.513	1.00 40.24
ATOM	5912	CG	LYS I	B 3	362	76.190	-9.527	93.337	1.00 52.55
ATOM	5913	CD	LYS			76.571	-8.126	92.849	1.00 56.65
						76.149	-7.032	93.819	1.00 53.39
MOTA	5914	CE	LYS						
ATOM	5915	NZ	LYS :	В		76.553	-5.680	93.341	1.00 48.87
ATOM	5916	С	LYS !	в :	362	72.427	-9.826	92.463	1.00 32.84
ATOM	5917	0	LYS			72.045	-10.367	91.938	1.00 28.27
						71.628	-9.075	93.215	1.00 34.67
ATOM	5918	N	GLU :						
MOTA	5919	CA	GLU :	В 3	363	70.245	-9.493	93.435	1.00 35.72
MOTA	5920	CB	GLU :	в:	363	69.519	-8.532	94.390	1.00 36.04
ATOM	5921	CG	GLU :			69.502	-7.077	93.977	1.00 44.81
						68.859	-6.186	95.033	1.00 52.14
ATOM	5922	CD	GLU :						
MOTA	5923	OEl	GLU :	B :	363	67.661	_6.370	95.341	1.00 48.46
ATOM	5924	OE2	GLU :	в:	363	69.562	-5.300	95.566	1.00 57.31
ATOM	5925	С	GLU :			69.501	-9.619	92.111	1.00 30.68
							-10.530	91.944	1.00 30.45
MOTA	5926	0	GLU :						
ATOM	5927	N	VAL :	B :	364	69.784	-8.724	91.166	1.00 26.19
ATOM	5928	CA	VAL :	в :	364	69.138	-8.789	89.852	1.00 24.65
ATOM	5929	CB	VAL		364	69.536	-7.599	88.958	1.00 23.49
						68.924	-7.770	87.563	1.00 21.01
ATOM	5930		VAL						•
MOTA	5931	CG2	VAL :	в.	364	69.049	-6 <i>:</i> 293	89.587	1.00 23.08
ATOM	5932	С	VAL :	в:	364	69.530	-10.083	89.144	1.00 23.19
ATOM	5933	0	VAL :			68.691	-10.749	88.542	1.00 23.06
			LYS				-10.436	89.216	1.00 27.15
ATOM	5934	N							
ATOM	5935	CA	LYS				-11.668	88.594	1.00 29.18
ATOM	5936	CB	LYS :	в :	365	72.821	-11.758	88.704	1.00 28.61
MOTA	5937	CG	LYS	B :	365	73.554	-10.617	88.030	1.00 30.27
	5938		LYS				-10.768	88.154	1.00 32.58
ATOM		CD				75.790		87.516	1.00 29.13
MOTA	5939	CE	LYS				-9.587		
MOTA	5940	NZ	LYS	В	365	77.271	-9.689	87.606	1.00 35.17
ATOM	5941	С	LYS	в :	365	70.666	-12.879	89.276	1.00 25.30
ATOM	5942	Č	LYS				-13.837	88.613	1.00 26.81
							-12.831	90.604	1.00 26.10
MOTA	5943	N	ASP						
ATOM	5944	CA	ASP	В	366		-13.938	91.347	1.00 28.29
ATOM	5945	CB	ASP	в :	366	70.105	-13.731	92.859	1.00 29.44
ATOM	5946	CG	ASP			71.557	-13.669	93.311	1.00 32.95
							-14.099	92.551	1.00 26.37
MOTA	5947		ASP						
MOTA	5948	OD2	ASP	в.	366		-13.216	94.442	1.00 35.26
MOTA	5949	С	ASP :	в :	366	68.487	-14.110	90.986	1.00 28.61
ATOM	5950	0	ASP			68.000	-15.231	90.869	1.00 27.00
							-13.002	90.801	1.00 28.63
MOTA	5951	N	THR						
MOTA	5952	CA	THR				-13.080	90.438	1.00 27.35
ATCM	5953	CB	THR	B :	367	65.726	-11.683	90.359	1.00 27.63
MOTA	5954		THR			65.771	-11.068	91.656	1.00 28.12
							-11.786	89.890	1.00 22.94
MOTA	5955	CG2	THR						
ATOM	5956	С	THR	в :	367 ·		-13.782	89.094	1.00 25.46
ATOM	5957	0	THR			65.389	-14.693	88.964	1.00 24.48
		N	LEU				-13.361	88.092	1.00 23:33
ATOM	5958							86.785	1.00 28.99
ATOM	5959	CA	LEU				-13.990		•
ATOM	5960	CB	LEU	В :	368		-13.256	85.759	1.00 27.67
ATOM	5961	CG	LEU	В :	368	67.060	-12.070	85.046	1.00 29.47
	5962		LEU			65.923	-12.607	84.195	1.00 32.45
ATOM							-11.027	86.043	1.00 19.43
ATOM	5963	CD2	LEU	Φ.	200	00.340	-11.06/	50.045	40.30

MOTA	5964	С	LEU	3	368	67.262	-15.454	86.888	1.00 32.40
ATOM	5965	0			368		-16.309	86.179	1.00 31.80
							-15.735		
ATOM	5966	N	GLU	В	369			87.774	1.00 33.59
ATOM	5967	CA	GLU	В	369		-17.101	88.003	1.00 39.68
ATOM	5968	CB	GLU	3	369	69.736	-17.141	89.082	1.00 42.61
ATOM	5969	CG	GLU	3	369		-17.138	88.537	1.00 50.65
MOTA	5970	CD			369		-18.443	87.842	1.00 55.81
MOTA	5971	OE1	GLU	В	369	72.589	-18.561	87.299	1.00 57.42
ATOM	5972	OE2	GLU	В	369	70.610	-19.353	87.841	1.00 58.37
MOTA	5973	C	GLU				-17.954	88.442	1.00 34.94
MOTA	5974	0			369		-18.974	87.827	1.00 32.71
ATOM	5975	N	LYS	3	370		-17.541	89.512	1.00 34.92
ATOM	5976	CA	LYS	3	370	65.656	-18.295	89.993	1.00 35.12
MOTA	5977	CB	LYS		370		-17.679	91.268	1.00 37.39
MOTA	5978	CG			370		-17.916	92.532	1.00 44.70
ATOM	5979	CD	LYS	В	370	66.781	-16.741	92.892	1.00 48.10
ATOM	5980	CE	LYS	В	370	65.956	-15.537	93.346	1.00 47.82
ATOM	5981	NZ	LVS	R	370	66.804	-14.387	93.786	1.00 45.41
		C	LYS				-18.375	88.930	1.00 33.21
ATOM	5982								
MOTA	5983	0			370		-19.409	88.773	1.00 29.52
ATOM	5984	11	ALA	9	371	64.390	-17.288	88.191	1.00 31.62
ATOM	5985	CA	ALA	В	371		-17.274	87.153	1.00 37.19
	5986	CB	ALA			63.392			1.00 35.65
MOTA									
MOTA	5987	С	جند		371	63.572		86.181	1.00 37.79
ATOM	5988	0	ALA	В	371	62.627		85.838	1.00 34.46
ATOM	5989	И	LYS	В	372	54.810	-18.644	85.759	1.00 40.10
ATOM	5990	CA	LYS	a	372		-19:698	84.792	1.00 40.46
			LYS		372		-21.066	85.348	
MOTA	5991	C							1.00 43.15
ATOM	5992	0	LYS		372	64.757		84.591	1.00 43.57
ATOM	5993	CB	LYS	3	372	66.654	-19.694	84.517	1.00 40.51
ATOM	5994	CG	LYS	В	372	67.029	-18.925	83.248	1.00 20.00
ATOM	5995	CD	LYS			68.352		82.635	1.00 20.00
						68.544		82.706	
MOTA	5996	CE	$\Gamma \lambda 2$		372				1.00 20.00
MOTA	5997	NZ			372			82.116	1.00 20.00
ATOM	5998	N	ALA	В	373	64.412	-21.159	86.624	1.00 47.80
ATOM	5999	CA	ALA	В	373	64.014	-22.425	87.239	1.00 49.71
ATOM	6000	CB	ALA		373	64.762		88.546	1.00 48.25
ATOM	6001	C	ALA		373	62.515		87.494	1.00 53.38
ATOM	6002	0	ALA	3	373	61.844		86.903	1.00 58.01
ATOM	6003	OXT	ALA	В	373	62.029	-21.589	88.269	1.00 55.13
HETATM	2991	ZΝ	233	С	1	49.660	9.211	109.302	1.00 32.54
HETATM		31	TSA		2	47.669			1.00 28.76
						•			
HETATM		C2	TSA		2	49.952		108.340	1.00 25.81
HETATM	2994	03	TSA	D	2	52.458	5.101	101.667	1.00 36.93
HETATM	2995	N1	TSA	D	2	47.800	7.789	108.131	1.00 31.21
HETATM		N2	TSA		2	53.013	-1.329	101.259	1.00 30.57
HETATM								101.610	1.00 28.47
		C1	TSA		2	51.859			
HETATM		C2	TSA		2	50.907		101.666	1.00 25.57
HETATM	2999	C3	TSA	D	2	51.241	0.419	101.551	1.00 21.68
HETATM	3000	C4	TSA	D	2	52.626	0.026	101.366	1.00 23.11
HETATM		C5	TSA		2	53.589		101.303	1.00 25.02
					2				
HETATM		. C6	TSA		2	53.218		101.418	1.00 29.24
HETATM	3003	C?	TSA	D	2	51.572	4.261	101.734	1.00 32.98
HETATM	3004	C8	TSA	D	2	50.108	4.726	101.996	1.00 29.05
HETATM		C9	TSA		2	50.052	5.421	103.338	1.00 28.13
									1.00 25.99
HETATM		C10	TSA		2	49.060	5.357		
HETATM		C11	TSA		2	49.315		105.504	1.00 32.05
HETATM	3008	C12	TSA	D	2	48.515	6.184	106.595	1.00 27.37
HETATM		C13	TSA		2	48.855		107.756	1.00 29.02
			TSA		2	49.680		100.864	1.00 30.21
HETATM		C14			<u>-</u>				
HETATM		C15	TSA		2	47.776		104.132	1.00 30.60
HETATM	3012		TSA		2	54.438		101.139	1.00 23.45
HETATM		C16	TSA	D	2	52.044	~2.416	101.316	1.00 23.15
HETATM		ZN	ZN	Ξ	1	52.949	1.842	85.681	1.00 28.19
					2	50.964	0.911	85.428	1.00 24.72
HETATM		01	TSA						
HETATM	,5006	02	TSA	F	2	51.255	3.324	86.654	1.00 30.24

HETATM	6007	03	TSA	F	2		51.569	6.512	93.219	1.00 27.89
HETATM		N1	TSA		2 ·		50.347	1.221	86.634	1.00 27.23
					2		47.061	11.139	93.713	1.00 16.24
HETATM		N2	TSA				49.443	7.579	93.304	1.00 27.18
HETATM		C1	TSA		2					
HETATM		C2	TSA		2		48.035	7.529	93.267	1.00 25.98
HETATM	6012	C3	TSA	F	2		47.227	8.657	93.398	1.00 24.59
HETATM	6013	C4	TSA	F	2		47.837	9.971	93.583	1.00 25.75
HETATM	6014	C5	TSA	F	2		49.274	10.017	93.626	1.00 26.53
HETATM		C6	TSA		. 2		50.041	8.869	93.495	1.00 28.36
		C7	TSA		2		50.349	6.405	93.167	1.00 25.27
HETATM							49.716	5.006	92.905	1.00 24.18
HETATM		C8	TSA		2	•				
HETATM		C9	TSA		2		50.134	4.552	91.518	1.00 27.20
HETATM	6019	C10	TSA	F	2		49.419	3.807	90.616	1.00 30.21
HETATM	6020	C11	TSA	F	2		50.118	3.553	89.327	1.00 27.18
HETATM	6021	C12	TSA	F	2		49.762	2.624	88.409	1.00 23.47
HETATM		C13	TSA	F	2		50.529	2.462	87.170	1.00 28.28
HETATM			TSA		2		50.208	4.019	93.994	1.00 28.83
HETATM		C15	TSA		2		48.013	3.270	90.863	1.00 26.16
HETATM		C17	TSA		2		47.699	12.456	93.883	1.00 27.37
HETATM	6023						45.610	11.107	93.679	1.00 25.36
HETATM			TSA		2					1.00 23.30
HETATM			WAT		1		61.391	6.723	88.062	
HETATM		OH2	TAW	G	2		55.595	-4.443	83.558	1.00 7.53
HETATM		OH2	WAT	G	3		58.656		106.749	1.00 12.33
HETATM	6030	OH2	TAW	G	4		46.347	15.263	111.460	1.00 14.54
HETATM		OH2	WAT	G	5		45.523	13.627	76.224	1.00 11.14
HETATM		OH2	WAT	G	6		24.466	-6.064	85.688	1.00 22.41
HETATM			WAT		7		48.579	-17.745	80.769	1.00 21.99
HETATM			TAW		8		56.344	-15.640	87.809	1.00 26.67
HETATM			WAT		9			-14.901	83.717	1.00 23.94
HETATM			WAT		10		57.540		122.771	1.00 26.96
HETATM			WAT		11		59.414	-2.497	84.029	1.00 22.51
					12		31.671		114.616	1.00 32.15
HETATM			WAT		13		62.335		117.140	1.00 19.47
HETATM			WAT				45.565	9.469	79.366	1.00 18.81
HETATM			WAT		14					
HETATM			WAT		15		43.311	8.237	79.508	1.00 26.11
HETATM			WAT		16		46.628		104.423	1.00 24.28
HETATM			WAT		17		40.672	2.507	81.576	1.00 18.30
HETATM		OH2	WAT	G	18		61.830	10.923	77.709	1.00 22.27
HETATM	6045	OH2	WAT	G	19		57.813		108.580	1.00 24.68
HETATM	6046	OH2	WAT	G	20		48.885	5.660	77.823	1.00 30.00
HETATM	6047	OH2	WAT	G	21		36.382	-8.352	88.841	1.00 17.32
HETATM	6048	GH2	WAT	.G	22		39.316	-10.091	86.422	1.00 27.38
HETATM		OH2	WAT	G	23		54.802	-3.446	90.346	1.00 21.73
HETATM			WAT		24		49.292	12.112	140.537	1.00 34.17
HETATM			WAT		25		56.747	8.830	60.744	1.00 40.67
HETATM			WAT		26		41.952	9.79	100.118	1.00 27.92
HETATM			WAT		27		31.268		106.695	1.00 24.31
HETATM	6054		TAW		28		68.342	17.79:	111.076	1.00 30.93
			WAT		29		72.651	-6.985	94.845	1.00 29.34
HETATM							39.287	9.257	85.623	1.00 22.61
HETATM			WAT		30			14.462	87.256	1.00 29.85
HETATM			WAT		31		61.221			
HETATM		OH2			32		38.167	22.692	107.435	.1.00 36.40
HETATM		OH2			33		64.657	-2.682	96.225	1.00 18.70
HETATM	6060	CH2	WAT	G	34		44.059	-2.698 ⁻		1.00 30.02
HETATM	6061	OH2	TAW	G	35		38.480	4.763	93.051	1.00 28.03
HETATM	6062	OH2	TAK	G	36		57.899	7.654		1.00 26.46
HETATM		OH2	TAW	G	37		57.092	3.145	93.309	1.00 22.31
HETATM	6064		WAT		38		52.194	-1.400	118.878	1.00 30.83
HETATM			TAW		39		69.400	14.200	123.379	1.00.30.98
HETATM			NAT		40		24.024	6.540	79.852	1.00 38.13
HETATM			WAT		41		46.657	-10.880	89.402	1.00 29.24
					42		24.976	13 499	109.692	1.00 46.34
HETATM	6000						46.533	-4.511	94.759	1.00 23.11
HETATM	6000		WAT		43		51.448	13.833	86.306	1.00 27.08
HETATM	60/0		WAT		44		70.578	4.183		1.00 42.42
HETATM	6071		WAT		45				116.021	1.00 38.97
HETATM	6072	OH2	WAT	G	46		53.938	~7.716	110.021	1.00 30.37

HETATM	6073	OH2	JAT	G	47		38.458	-0.443	63.035	1.00 28.35
HETATM		OH2	::AT	G	48		64.786	7.930	107.466	1.00 34.46
HETATM			WAT		49		50.823		114.809	1.00 40.51
HETATM			WAT		50			-10.352	68.080	1.00 39.11
HETATM	6077	OH2	WAT	G	51			-14.321	86.007	1.00 33.30
HETATM	6078	OH2	WAT	G	52		63.272	10.210	79.836	1.00 35.75
HETATM	6079	OH2	WAT	G	53		59.263	-12.096	94.306	1.00 29.57
HETATM			WAT		54		46.041	10.641	76.561	1.00 27.97
HETATM			WAT		55			-13.620	89.775	1.00 24.25
HETATM			. WAT		56		76.600	0.622	89.097	1.00 29.19
HETATM	6083		WAT		57		53.555	6.439	79.089	1.00 34.05
HETATM	6084	OH2	WAT	G	58		71.301	11.026	83.310	1.00 35.02
HETATM	6085	OH2	WAT	G	59	•	28.188	-9.956	81.594	1.00 33.21
HETATM			TAW		60		53.084	20.992	98.483	1.00 27.64
HETATM			WAT		61		59.484	8.630	93.423	1.00 30.30
HETATM			WAT		62		26.195	-3.809	95.805	1.00 33.04
HETATM			WAT		63		26.095	-0.121	89.620	1.00 37.39
HETATM		OHZ	TAW	G	64		47.100		109.711	1.00 20.88
HETATM	6091	OH2	WAT	G	65		23.273	0.731	92.275	1.00 30.38
HETATM	6092	OH2	WAT	G	66		45.340	-24.751	72.694	1.00 37.51
HETATM	6093	OH2	WAT	G	57		33.754		111.676	1.00 34.63
HETATM			WAT		68		52.831		126.276	1.00 47.11
HETATM							50.218		111.099	
			WAT		69					1.00 26.24
HETATM			TAW		70		44.791	5.844	70.857	1.00 24.95
HETATM	6097	OH2	VAT	G	71		49.517	-18.731	82.921	1.00 29.48
HETATM	6098	OH2	WAT	G	72		76.379	10.131	116.550	1.00 48.70
HETATM	6099	OH2	HAT	G	73		30.214	-8.086	87.873	1.00 46.35
HETATM			WAT		74		45.320	12.061	80.458	1.00 30.80
HETATM			WAT		75			5.360	86.249	1.00 29.04
HETATM			WAT		76			-23.046	87.252	1.00 41.96
HETATM			WAT		77		40.619		100.345	1.00 26.45
HETATM			TAW		78			-19.477		1.00 36.27
HETATM	6105	OH2	WAT	G	79		46.408	-6.539	92.717	1.00 25.78
HETATM	6106	OH2	WAT	G	80		35.743	-12:230	81.646	1.00 28.34
HETATM	6107	OH2	WAT	G	81		28.268	8.745	121.961	1.00 41.15
HETATM			TAV		82		68.843	3.154	71.986	1.00 32.34
HETATM			WAT		83			-11.158	85.150	1.00 24.14
							75.374	-1.773	92.264	
HETATM			WAT		84					1.00 26.12
HETATM			WAT		85		46.957		142.271	1.00 37.07
HETATM	6112	OH2	WAT		86		63.789	9.551	64.329	1.00 55.58
HETATM	6113	OH2	WAT	G	87		60.672	21.185	72.215	1.00 58.55
HETATM	6114	OH2	TAN	G	88		56.547	9.505	82.064	1.00 31.10
HETATM	6115	OH2	WAT	G	89		26.366	-0.876	92.250	1.00 29.70
HETATM	6116		WAT.		90		67.604	-16.583	80.808	1.00 32.85
HETATM			WAT		91		23.910	1.899	82.068	1.00 42.95
HETY TM			WAT		92		50.032		117.380	1.00 30.05
									127.360	
HETIM			WAT		93		26.774	-9.492	83.952	1.00 43.59
HETAIM			WAT		94		42.714		113.787	1.00 40.17
HETATM	6121	OH2	:/AT	G	95		57.966	7.989	134.170	1.00 47.82
HETATM	6122	OH2	WAT	G	96		54.478	-3.550	119.086	1.00 36.62
HETATM	6123	CH2	WAT	G	97		53.065	11.696	101.718	1.00 41.62
HETATM			WAT		98			-23.645	68.207	1.00 45.98
HETATM			WAT		99		54.855		121.975	1.00 34.57
HETATM		OH2	WAT				57.408	-3.352	57.145	1.00 42.14
HETATM			WAT		101		63.590		123.667	1.00 33.87
HETATM	6128	OH2	::'AT	G	102		48.129	-23.143	72.392	1.00 30.23
HETATM	6129	OH2	WAT	G	103		62.834	6.913	76.094	1.00 52.01
METATM			MAT				34.566	6.529	73.089	1.00 36.29
HETATM		OH2	WAT				51.588	20.869	67.459	1.00 36.85
							28.160		129.379	1.00 42.87
MTATEH			WAT						57.603	
HETATM			WAT					-11.452		1.00 43.62
HETATM			TAU				44.717	-8.605	93.281	1.00 41.95
HETATM	6135		TAU		109			-11.900	94.019	1.00 35.71
HETATM		OH2	WAT	G	110		49.561		100.800	1.00 35.40
HETATM			TAV				75.853	10.960	124.536	1.00 56.20
	013/									
HETATM			WAT				54.383		136.095	1.00 36.40

					rigme 10-	77		
	C120	OH2 WA	m c	112	33.114	1 764	67.443	1.00 37.01
HETATM		OH2 WA			42 618	-4.357	102.345	1.00 37.01
HETATM HETATM		OH2 WA				-10.816		1.00 31.62
HETATM		OH2 WA			73.410		90.400	1.00 34.72
HETATM		OH2 WA					110.221	1.00 35.69
HETATM		CH2 WA			31.474		112.425	1.00 28.08
HETATM		OH2 WA			39.749		132.457	1.00 37.43
HETATM		OH2 WA			44.921			1.00 40.80
HETATM		OH2 WA			31.081	7.617	137.137 75.105	1.00 40.86
HETATM		OH2 WA			35.554	12.017	105.965	1.00 33.58
HETATM		OH2 WA			41.381		70.872	1.00 38.10
HETATM		OH2 WA				1.992	73.813	1.00 33.97
HETATM		OH2 WA			55.761		101.654	1.00 47.66
HETATM		OH2 WA			30.596		133.642	1.00 37.98
HETATM		OH2 WA	T G	127			136.114	1.00 46.39
HETATM	6154	OH2 WA		128	24.190		124.679	1.00 30.77
HETATM		OH2 WA		129		4.455	86.283	1.00 36.11
HETATM		OH2 WA		130	57.882	-4.314	125.597	1.00 41.40
HETATM		OH2 WA		131	45.838		65.884	1.00 35.98
HETATM		OH2 WA		132	47.574	3.186	79.027	1.00 36.67
HETATM		OH2 WA	TG	122	40.000	-18.901	95.358	1.00 45.40
HETATM		OH2 WA	TG	134	40.104		122.461	1.00 31.38
HETATM		OH2 WA	T G			-20.155	66.212	1.00 37.55
HETATM		OH2 WA					103.626	1.00 37.96
HETATM		OH2 WA					106.499	1.00 43.94
HETATM HETATM		OH2 WA			79.029	-7.518	93.606	1.00 40.55
HETATM		OH2 WA			. 68.597	20.711	111.685	1.00 33.25
HETATM		OH2 WA	T G	141	64.263	8.524	113.832	1.00 40.63
HETATM		OH2 WA		143	49.387	-24.485	70.152	1.00 34.07
HETATM		OH2 WA		144	23.383	-3.854	83.604	1.00 32.22
HETATM		OH2 WA	T G	145	42.360	-0.710	61.686	1.00 35.94
HETATM	6171	OH2 WA	T G	146	42.360 34.421	-3.304		1.00 35.42
HETATM		OH2 W		147	21.300	3.402	89.579	1.00 39.86
HETATM		OH2 W			34.963	10.688		1.00 31.12
HETATM		OH2 W			54.859		96.769	1.00 40.83
HETATM		OH2 W			34.695 40.348	1.395		1.00 34.09
HETATM		OH2 WA			66.912	17.666	127.489	1.00 45.19
HETATM HETATM		OH2 WA			31.096		103.232	1.00 43.45
HETATM		OH2 W	T G	154	28.074	-4.222	70.175	1.00 28.86
HETATM		CH2 W	AT G	155	63.586 54.145	-1.894	99.003	1.00 41.15
HETATM		OH2 W	AT G	156	54.145	-22.222	88.415	1.00 40.92
HETATM		OH2 W			62 443	13.765	89.547	1.00 33.69
HETATM		OH2 W				9.798	101.311	1.00 31.00
HETATM		OH2 W	AT G	159	37.701	-5.528	119.322	1 00 45.00
HETATM	6185	OH2 W			43.599		131.274	1 00 38.43
HETATM		OH2 W			23.540	-1.137		1 00 51.83 1.00 41.92
HETATM		OH2 W			59.915		110.873 60.546	
HETATM		OH2 W			51.265 58.109	-8.264 7.024		1.00 31.23
HETATM		OH2 W			46.553	18.195		1.00 37.53
HETATM		OH2 W				-21.025		1.00 43.91
HETATM		OH2 W			67.146	-1.958	109.704	1.00 43.13
HETATM HETATM		OH2 W			47.445		134.746	1.00 27.99
HETATM		OH2 W			65.193			1.00 36.05
HETATM		OH2 W			36.176		102.024	1.00 39.63
HETATM		OH2 W			70.527			1.00 44.69
HETATM		OH2 W			67.166	8.735	74.628	1.00 51.41
HETATM		OH2 W			19.700	€.630		1.00 53.49
HETATM		OH2 W			55.875			1.00 38.63
HETATM		OH2 W			61.874	8.432		1.00 40.08
HETATM	6201	OH2 W			36.771		121.530	1.00 32.57
HETATM	6202	OH2 W			63.224			1.00 29.83 1.00 47.28
HETATM	6203	OH2 W			29.606		32.470 98.957	
HETATM	6204	OH2 W	AT (179	52.811	11.799	, 70.75/	1.00 30.03

HETATM	6205	OH2	WAT G	180		18.249	88.356	1.00 36.19
HETATM		OH2	WAT G	181		-15.681	61.135	1.00 34.24
HETATM			WAT G		42.283	15.251	91.437	1.00 37.96
HETATM			WAT G			-11.129	126.206	1.00 45.78
HETATM			WAT G			-19.367	92.127	1.00 36.55
HETATM			WAT G		56.880		95.969	1.00 39.12
			WAT G		26.356		125.052	1.00 32.68
HETATM					24.631		122.650	1.00 45.67
HETATM			WAT G				81.599	1.00 42.16
HETATM			WAT G		23.516			1.00 42.10
HETATM			WAT G		55.017		62.948	
HETATM			WAT G		33.371		105.640	1.00 37.04
HETATM			WAT G			-10.386	91.144	1.00 36.62
HETATM	6217	OH2	WAT G	192	28.437		121.285	1.00 38.19
HETATM	6218	он2	WAT G	193		24.957		1.00 42.05
HETATM	6219		WAT G		28.852		96.101	1.00 48.35
HETATM	6220	OH2	WAT G	195		11.318	92.011	1.00 32.60
HETATM		OH2	WAT G	196	26.812	-10.229	111.531	1.00 47.70
HETATM			WAT G		42.432	-23.250	76.629	1.00 48.86
HETATM			WAT G		25.484	12.756	121.410	1.00 43.09
HETATM			WAT G		43.514	-20.514	111.706	1.00 46.80
HETATM			WAT G		74.273	-13.079	95.699	1.00 44.89
HETATM			WAT G			24.381	103.984	1.00 40.63
HETATM			WAT G			-12.771		1.00 35.13
			WAT G		28.708		79.238	1.00 33.53
HETATM			WAT G		53.256		122.243	1.00 48.49
HETATM			WAT G		50.706		87.357	1.00 41.26
HETATM			WAT G		50.000			1.00 39.15
HETATM						-16.236	83.621	1.00 29.70
HETATM			WAT G				111.635	1.00 50.82
HETATM			WAT G		24.395		114.289	1.00 44.49
HETATM			WAT G		53.384			1.00 31.97
HETATM			WAT G		60.120		94.788	1.00 31.97
HETATM			WAT G		23.405		111.744	
HETATM			WAT G		46.214			1.00 59.14
HETATM	6238		WAT G		29.754			1.00 41.78
HETATM			WAT G		46.820		55.181	1.00 41.02
HETATM			WAT G		59.143		124.775	1.00 38.42
HETATM			WAT G		42.674		66.037	1.00 32.50
HETATM	6242		WAT G		55.009		98.186	1.00 56.50
HETATM	6243		WAT G		63.361		109.653	1.00 49.66
HETATM	6244	OH2	WAT G	219	66.583			1.00 50.91
HETATM	6245		WAT G		44.627			1.00 36.99
HETATM	6246	OH2	WAT G	221	24.470			1.00 47.24
HETATM		OH2	WAT G	222	76.913			1.00 50.43
HETATM		OH2	WAT G	223	32.788	0.651	129.136	1.00 42.47
HETATM			WAT G		73.731	16.880		1.00 46.69
HETATM	6250	OHE	WAT G	225	78.567	-2.802		1.00 43.17
HETATM	6251		WAT G		45.681	1.248	57.532	1.00 35.84
HETATM			WAT G		38.263	15.236	84.711	1.00 42.39
HETATM			WAT G		38.933	35.224	108.488	1.00 52.23
HETATM			WAT G		33.75		70.228	1.00 46.56
HETAT!			WAT G		51.52		100.859	1.00 52.96
HETATM			WAT G		34.140			1.00 31.02
HETATM	6257	0112	WAT G	232	37.27			1.00 39.83
HETATM		ONZ	WAT G	232	57.30			1.00 28.55
			WAT G		31.718	16 820	125.707	1.00 53.16
HETATM			WAT G		51.716 60 62	31 119	110.067	
HETATM					44.35			1.00 57.50
HETATM	0201		WAT G		CO 45			1.00 38.65
HETATM	6262	OH2	WAT G	23/			79.253	
HETATM			WAT G		27.83			1.00 42.95
HETATM		OH2	WAT G	239	54.93			
HETATM		OH2	WAT G	40		2 -15.271		
HETATM	5266	OH2	WAT G	241	35.96	5 -1.059		
HETATM			MAT G		29.58		127.376	
HETATM			WAT G				113.501	
HETATM			WAT G				96.696	
HETATM	6270	OH2	WAT G	245	62.31	0 13.262	80.972	1.00 36.34

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	C271	0113	WAT G	245		50.24	8	-5.	552	102.8	15	1.00	43.2	3
HETATM	62/1		WAT G			47.96		21.		79.3		1.00		
HETATM	62/2					62.50				108.4		1.00		
MTATAH			WAT G			53.97			763	61.0		1.00		_
HETATM	6274		WAT G						828	67.7		1.00		
HETATM			WAT G			38.40				-		1.00		
HETATM	6276		WAT G			35.30	4		179	66.3				
METATM	6277		WAT G			39.23				85.0		1.00		
HETATM	6278	OH2	WAT G	253		56.35			089	97.2		1.00		
HETATM			WAT G		•	69.85	0		406	122.3		1.00		
HETATM			WAT G			75.70)3	2.	630	128.6		1.00		
HETATM	6281		WAT G			32.03	9.	-12.	973	113.9	965	1.00		
HETATM	6282		WAT G			54.08			421	56.9		1.00		
HETATM	6202	0112	WAT G	258		32.80		-6.	170	91.0	078	1.00	35.7	2
HETATM	6203	0112	WAT G	259		45.04		0.	301	95.4	449	1.00	36.5	7
HETAIM	6264		WAT G			39.8				128.	855	1.00	40.1	0
HETATM	6285		WAT G			28.7			408	93.		1:00		
HETATM	6286		WAT G			49.6				60.		1.00	50.8	9
HETATM	6287					64.3				117.		1.00		
HETATM	6288		WAT G			75.1				128.		1.00		
HETATM	6289		WAT G			46.2			.826	52.		1.00		
HETATM	6290		WAT G						.973	70.		1.00		
HETATM	6291		WAT G			68.7				130.		1.00		
HETATM	6292		WAT G			71.5				130.		1.00		
HETATM	6293	OH2	WAT G			36.3						1.00		
HETATM	6294	CH2				65.9			.195	79.				
HETATM	6295	OH2	WAT G	270		71.9			.021	74.		1.00		
HETATM	6296	CH2		271		44.4				62.		1.00		
HETATM	6297	OH2	WAT	272		26.9			.038		067	1.00		
HETATM	6298	OH2	WAT C	273		63.3		-5	.416	126.		1.00		
HETATM	6299		WAT C			63.3	60		.356		641	1.00		
HETATM	6300		WAT C			65.9	47	-13	.015		485	1.00		
HETATM	6301		WAT			26.4				117.		1.00		
HETATM			WAT			41.8	93	-10	.251	98.	201	1.00		
HETATM			VIAT (30.3	43			117.		1.00		
HETATM	6304		WAT			45.1				111.		1.00		
HETATM	6305	OH2				50.5		-1	.365	120.	511	1.00		
HETATM		0Н2				60.4				105.		1.00	31.	10
HETATM		OH2				30.3			.204		246	1.00		
HETATM		OH2				60.3		15	.921	127.	736	1.00	33.	17
HETAIR		OH2				64.1			.421		117	1.00	45.	81
HETATI						45.4			.113		853	1.00	48.	98
HETATI		OHZ				47.5			.808		279	1.00	46.	45
HETATY		OH2		3 280 3 287		72.1			.345		930	1.00	40.	04
HETAT	1 6312	OH		G 288		54.1		_	.100		674		43.	
HETATI		OH:				48.9			. 297		822		46.	
	4 6314	OH2				41.1				115			51.	
	4 6315	OH	TAW S	290		36.4				104			44.	
HETATI	4 6316		TAW S			48.5			.117				40.	
HETATI	4 6317	OH	2 WAT	G 292		55.8	200		.934		. 099		40.	
HETATI	1 6318	OH:	2 WAT	G 293					077		.427		41.	
HETAT	1 6319	OH:	TAW S	G 294		61.7	20	10		114			42.	
HETATI	4 6320		TAW S					-10	200	129	052		37.	
HETATI	4 6321		TAW S			53.0							48.	
HETATI	M 6322		2 WAT			70.2		24	.928	02	.843		51.	
HETATI	M 6323	OH:	TAW S	G 298		77.4				130				
HETATI	M 6324	OH:	TAW S	G 299		32.2			2.18		.028		53.	
HETATI	M 6325	OH	Z WAT	G 300		40.			2.87	5 65	.747		46.	
HETAT	M 6326	OH:	2 WAT	G 301		50.9				1114			48.	
HETAT	M 6327		2 WAT			54.2	236		3.81		.196		41.	
	M 6328	OH		G 303		59.	527			3 107			36.	
HPTATE	M 6329	OH.	2 WAT			70.	331	3	.94		.312		47.	
::::::::::::::::::::::::::::::::::::::	M 6330	CH		G 305		60.		•	5.96	9 127	.780	1.00	41.	
::::::::::::::::::::::::::::::::::::::	M 6331	OH		G 306		42.			0.13	9 133	.156	1.00	3-2	. 19
722234. 7220000	M 6332	೧೫	2 MAT			58.		10	5.51	4 99	.413	1.0	53.	
	M 6333		2 WAT			67.			1.58		, 570		0 40	
na IAT	M 6374	OH	2 WAT	6 309		35	868		0.93		.849	1.0	0 48	
HETAT	M 6334		2 WAT			45.			5.38	8 131		1.0	0 48	.99
HETAT	M 6335					37.			6.24		.257	_	0 37	
HETAT	M 6336	CH	2 WAT	نددى		٠, ٠		1	~ . <u>~</u> 2			-	-	

HETATM 6337	OH2 WAT G 312	66.759 16.408 94.600	1.00 45.07
HETATM 6338	OH2 MAT G 313	24.142 11.212 113.340	1.00 52.23
HETATM 6339	OH2 WAT G 314	69.409 16.702 64.230	1.00 39.88
HETATM 6340	OH2 WAT G 315	22.064 24.858 115.328	1.00 50.23
HETATM 6341	OH2 WAT G 316	50.171 9.551 100.345	1.00 37.32
HETATM 6342	OH2 WAT G 317	55.104 31.302 119.497	1.00 44.78
HETATM 6343	OH2 WAT G 318	65.333 -10.105 95.866	1.00 44.21
HETATM 6344	OH2 WAT G 319	31.415 -2.472 128.127	1.00 41.95
	OH2 WAT G 320	37.423 13.143 88.069	1.00 44.79
HETATM 6345			
нетатм 6346	OH2. WAT G 321	43.619 14.292 96.509	1.00 54.69
HETATM 6347	OH2 WAT G 322	68.048 14.555 126.016	1.00 42.75
HETATM 6348	OH2 WAT G 323	34.778 -2.509 130.204	1.00 37.06
HETATM 6349	OH2 WAT G 324	27.972 18.144 103.841	1.00 47.34
HETATM 6350	OH2 WAT G 325	53.550 23.610 97.592	1.00 38.03
HETATM 6351	OH2 WAT G 326	33.776 4.171 103.451	1.00 50.60
	OH2 WAT G 327		1.00 30.00
HETATM 6352			
HETATM 6353	OH2 WAT G 328	50.893 14.612 93.478	1.00 38.77
HETATM 6354	OH2 WAT G 329	71.422 -20.913 86.137	1.00 47.69
HETATM 6355	OH2 WAT G 330	50.310 -23.133 74.502	1.00 41.94
HETATM 6356	OH2 WAT G 331	41.520 7.269 60.583	1.00 54.93
HETATM 6357	OH2 WAT G 332	75.879 13.737 106.089	1.00 44.65
HETATM 6358	OH2 WAT G 333	51.923 9.027 138.493	1.00 41.08
	OH2 WAT G 333	49.511 27.611 79.363	
HETATM 6359			1.00 39.05
HETATM 6360	OH2 WAT G 335	69.385 0.852 110.192	1.00 41.42
HETATM 6361	OH2 WAT G 336	40.952 2.479 101.880 32.998 7.200 103.784 54.366 15.261 136.205	1.00 42.50
HETATM 6362	OH2 WAT G 337	32.998 7.200 103.784	1.00 54.22
HETATM 6363	OH2 WAT G 338	54.366 15.261 136.205	1.00 52.69
HETATM 6364	OH2 WAT G 339	35.674 13.727 89.792	1.00 35.83
HETATM 6365	OH2 WAT G 340	66.606 -21.361 87.138	1.00 46.26
HETATM 6366			1.00 45.27
HETATM 6367	OH2 WAT G 342	28.072 -1.358 70.419	1.00 34.92
HETATM 6368	OH2 WAT G 343	23.611 -3.981 76.422	1.00 52.39
HETATM 6369	OH2 WAT G 344	53.684 2.564 122.150	1.00 58.16
HETATM 6370	OH2 WAT G 345	30.624 -6:528 125.556	1.00 34.71
HETATM 6371	OH2 WAT G 346	27.870 13.838 113.997	1.00 44.91
HETATM 6372	OH2 WAT G 347	31.903 -9.588 116.327	1.00 55.34
HETATM 6373	CH2 WAT G 348	71.763 15.094 63.739	1.00 48.99
HETATM 6374	OH2 WAT G 349	25.258 -2.536 114.760	1.00 37.19
		43.765 12.162 78.143	1.00 42.32
HETATM 6375	OH2 WAT G 350		
HETATM 6376	OH2 WAT G 351	32.452 5.338 73.909	1.00 33.70
HETATM 6377	OH2 WAT G 352	52.896 -5.770 101.894	1.00 46.40
HETATM 6378	OH2 WAT G 353	47.968 4.242 115.852	1.00 34.62
HETATM 6379	OH2 WAT G 354	38.561 ~9.302 90.596	1.00 49.80
HETATM 6380	OH2 WAT G 355	63.791 17.454 74.354	1.00 56.40
HETATM 6381	OH2 WAT G 356	41.360 2.648 133.760	1.00 50.00
	OH2 WAT G 357	42.467 -7.937 122.328	
			1.00 39.26
HETATM 6383	OH2 WAT G 358		
HETATM 6384	OH2 WAT G 359	54.217 -23.881 67.865	1.00 55.18
HETATM 6385	OH2 WAT G 360	64.959 9.539 105.032	1.00 38.83
HETATM 6386	OH2 WAT G 361	58.113 -19.846 82.288	1.00 38.60
HETATM 6387	OH2 WAT G 362	42.245 -1.140 93.572	1.00 31.47
HETATM 6388	OH2 WAT G 363	73.552 17.770 125.885	1.00 54.89
HETATM 6389	OH2 WAT G 364	68.769 15.898 106.810	1.00 45.53
HETATM 6390	OH2 WAT G 365	37.543 19.031 78.866	1.00 45.15
			1.00 43.13
HETATM 6391	OH2 WAT G 366	55.583 6.906 95.087 41.284 9.699 78.250	
HETATM 6392	OH2 WAT G 367	41.284 9.699 78.250	1.00 36.58
HETATM 6393	OH2 WAT G 36B	25.203 5.332 126.362	1.00 46.60
HETATM 6394	OH2 WAT G 369	74.742 -5.006 95.104	1.00 47.85
HETATM 6395	OH2 WAT G 370	70.349 19.871 69.925	1.00 51.46
HETATM 6396	OH2 WAT G 371	42.936 20.631 94.720	1.00 38.66
HETATM 5397	OH2 WAT G 372	34.162 -16.114 114.141	1.00 44.01
		33.863 16.838 100.275	1.00 44.66
HETATM 5398	OH2 WAT G 373		
HETATM 6399	OH2 WAT G 374	21.613 12.569 86.140	1.00 43.89
HETATM 6400	OH2 WAT G 375	35.751 -13.302 100.583	1.00 53:53
HETATM 5401	CH2 WAT G 376	70.095 13.395 117.505	1.00 52.02
HETATM 6402	OH2 WAT G 377	41.853 19.108 131.799	1.00 46.47
		•	

HETATM	6403	OH2	WAT G	378		55.780	-14.986	65.487	1.00 49.09
HETATM			WAT G			40.990	21.205	91.611	1.00 41.02
HETATM			WAT G			48.157	1.057	116.992	1.00 44.84
HETATM			WAT G			37.954	-6.221	128.334	1.00 37.09
HETATM			WAT G			30.221	27.743	109.194	1.00 39.92
HETATM			WAT G			49.926	-12.826	118.421	1.00 58.95
HETATM				384			-17.636	81.477	1.00 48.47
HETATM			WAT G				-25.990	71.378	1.00 48.18
HETATM			WAT G			40.495		128.741	1.00 43.82
HETATM			WAT G			31.943	6.301	109.475	1.00 35.53
HETATM			WAT G			47.277	2.559	100.509	1.00 43.00
HETATM			WAT G			38.862	9.112	102.620	1.00 31.70
HETATM			WAT G			71.652	14.568	105.167	1.00 49.63
HETATM			WAT G			68.554	-10.518	73.331	1.00 38.16
HETATM				392		70.496	-16.160	84.425	1.00 32.16
HETATM				393		44.698	-24.950	75.603	1.00 43.38
HETATM				394		56.172	15.369	55.027	1.00 47.44
HETATM				395		46.150	-9.441	99.999	1.00 47.98
HETATM				396		26.892	-8.356	89.057	1.00 34.99
HETATM			WAT G	397		31.737	14.380	90.395	1.00 50.78
HETATM		OH2	WAT G	398		36.261	-13.824	62.777	1.00 50.86
HETATM			WAT G		•	37.312		134.977	1.00 43.57
HETATM			WAT G			33.728	13.773	126.419	1.00 57.13
HETATM			WAT G			45.269	27.937	130.311	1.00 49.55
HETATM			WAT G			44.887		111.508	1.00 54.29
HETATM			WAT G			68.928	0.455	136.711	1.00 49.90
HETATM			WAT G			43.271	-21.571	64.425	1.00 48.61
HETATM			WAT G	405		24.243	-4.781	108.590	1.00 51.05
HETATM			WAT G	406		54.828	5.311	59.009	1.00 43.43
HETATM		OH2	WAT G	407		53.460	27.992	124.076	1.00 47.83
HETATM		OH2	WAT G	408	•	70.833	-18.390	85.386	1.00 49.26
HETATM	6434	OH2	WAT G	409		71.497		113.071	1.00 34.52
HETATM		OH2	WAT G	410				110.466	1.00 55.43
HETATM	6436	OH2	WAT G	411		26.220	-9.551	78.158	1.00 47.69
HETATM			WAT G			52.319	26.326		1.00 42.00
HETATM	6438		WAT G			76.173		122.253	1.00 44.90
HETATM	6439	OH2	WAT G	414		58.379		123.024	1.00 54.61
HETATM			WAT G			72.162	-16.705		1.00 50.63
HETATM	6441		WAT G			63.557	26.152		1.00 39.83 1.00 52.57
HETATM		OH2				38.935		122.742 124.501	1.00 52.57 1.00 42.38
HETATM			WAT G				-10.714	110.170	1.00 42.33
HETATM		CH2				55.443	16.578		1.00 46.54
HETATM		CH2				73.873	12.663		1.00 43.62
HETATM		OH2				74.426	-0.368		1.00 56.99
HETATM			WAT G			52.374	20.215		1.00 36.27
HETATM			WAT G			60.339	1.354		1.00 38.53
HETATM	6449		WAT G			48.308 61.757	21 606	115.976	1.00 61.09
HETATM			WAT G					119.528	1.00 51.12
HETATM			WAT G			47.477		112.298	1.00 46.10
HETATM	6452		WAT G			39.909		138.388	1.00 35.33
HETATM	6453		WAT G			57.829		126.262	1.00 62.59
HETATM			WAT G			48.917		119.191	1.00 51.45
HETATM			WAT G			44.139		132.964	1.00 44.91
HETATM		OHZ	WAT G	437		38.885			1.00 50.23
HETATM			WAT G			52.628			1.00 38.96
HETATM			WAT G			60.644		101.129	1.00 47.30
HETATM HETATM		೧೫೭	WAT G	435		64.772			1.00 50.81
			WAT G			39.571			1.00 34.07
HETATM	2462		NAT G			32.791			1.00 41.40
HETATM			WAT G			58.318		-	1.00 46.94
HETATM	1 5363		WAT G			26.982	5.474	120.408	1.00 46.28
HETATM	1 2165	OH2				72.138			1.00 50.13
HETATM	1 5465		WAT G			29.494		118.393	1.00 56.30
· HETAT	1 6467		WAT C			69.232		113.941	1.00 58.17
HETAT	1 6365		WAT C			61.459			
urivi.	7 0400							•	

	нетатм	6469	он2	WAT	G	444	59.5	92	2.195	58.518	3 1.00	42.66	
	HETATM	6470	OH2	LWAT	G	445	47.4	07	6.152	111.310	1.00	45.14	
	HETATM	6471	OH2	WAT	G	446	36.2	54	18.203	99.930	1.00	44.76	
	HETATM	6472	OH2	WAT	G	447	49.5	25	32.050	116.235	5 1.00	47.72	
	HETATM	6473	OH2	WAT	G	448	21.8	01	-5.358	81.109	1.00	42.07	
	HETATM	6474	OH2	WAT	G	449	52.1	31	-14.007	95.380	1.00	40.76	
	HETATM	6475	OH2	WAT	G	450	39.7	12	-19.983	72.499	9 1.00	51.69	
	HETATM	6476	OH2	WAT	G	451	67.6	51	5.620	67.102	2 1.00	42.38	
	HETATM	6477	OH2	WAT	G	452	77.3	44	1.313	79.20	7 1.00	63.64	
	HETATM	6478	OH2	WAT	G	453	55.2	49	-29.426	86.18	7 1.00	44.98	
	HETATM	6479	OH2	WAT	G	454	64.4	29	-11.004	98.10	4 1.00	49.12	
	HETATM	6480	он2	WAT	G	455	45.4	56	-0.814	129.510	0 1.00	61.60	
	HETATM	6481	он2	TAW	G	456	65.0	66	-14.790	68.328	8 1.00	40.08	
,	UPTATM	6482	∩ ¥2	T-I-S TT	c	457	34 7	32	5 611	94 924	4 1 00	58 32	





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					esidue	# X	Y 37,229	Z 75.022	B	Segment 57.10	ענ	ann.
ATCM	1	CB	ALA .		2	45.368		73.244		55.49		AAAA
ATOM	3	C	بخشخ		2	46.761	38.761					
ATOM	3	C	ALA .	À	2	46.339	39.800	73.750	1.00	55.57		ana.
ATOM	4	::	ALA .	À	2	48.280	37.746	74.937	00	57.26		بههب
ATOM	5	CA	ALA	A.	2	47.062	37.537	74.110		56.37		AAAA
ATOM	5	22	LYS		3	46.976	.38.628	71.938	1.00	53.94		ā A ĀĀ
ATCH	7	CA	LYS		3	46.721	39.716	71.002	1.00	51.97 53.86		AAAA
ATOM	. 8	CE	LYS		3	47.815	39.778	69.939	1.00	53.86		ÀÀÀÀ
		CG	LYS			49.223	39.876	70.490	1.00	56.47		AAAA
ATOM	9				3 3	50.252	39.570	69.387		57.84		AAAA
ATOM	10	22	LYS			51.654	39.597	69.957		58.89		AAAA
ATCM	11	CE	LY5	À	3 .			68.895	- 00	59.33		AAAA
MOTA	12	∷z	LYS		3	52.643	39.283		- 00	49.57		AAAA
ATOM	13	C	LYS		3	45.393	39.494	70.305				
ATOM	14	·O	LYS	À	3	44.894	38.373	70.246		49.33		AAAA
ATOM	15	17	VAL	A	· 4	44.826	40.574	69.77 7		46.23		AAAA
ATOM	16	CA	"AL		4	43.551	40.516	69.056		42.51		AAAA.
ATOM	17	C3	VAL		4	42.543	41.516	69.630	1.00	42.26		AAAA
ATCM	18	CG1	VAL		4	41.213	41.352	68.940	1.00	41.51		AAAA
	19		VAL		4	42.401	41.307	71.128		42.00		AAAA
ATOM	19				1	43.918	40.913	67.638		39.94		AAAA
ATOM	20	c	VAL			44.332	42.032	67.395		40.39		AAAA
MOTA	31	ិ	VAL		4		40.001	56.695		36.94		AAAA
ATOM	22	51	LYS		5	43.766			1.00	34.10		AAAA
ATOM	23	CA	LYS		5	44.142	40.305	65.323	1.00	34.10		
ATOM	24	23	LYS		5	45.179	39.290	64.846		35.02		AAAA
ATOM	25	CG	LYS	À	5 .	46.424	39.182	65.698	1.00			AAAA
ATOM	26	CD	LYS		5 5	47.233	40.452	65.652	1.00			AAAA
MOTA	27	CΞ	LYS		5	48.555	40.239	66.333	1.00	3.2.38		****
ATOM	28	::2	LYS		5	49.372	41.460	56.222	1.00	31.26		ààir
ATOM	29	c	LYS		5	42.997	40.293	64.333	1.00	31.38		AAAA
	30	õ	L::S		5	42.053	39.523	64.466	1.00	31.74		AAAA
ATOM					6	43.090	41.142	63.326		28.60		AAAA
ATOM	31	17	LEU		6	42.075	41.167	62.289		26.90		AAAA
MOTA	32	CA	LEU				42.580	62.067		26.43		AAAA
MOTA	33	CЭ	LEU		6	41.530	42.748	61.129		25.89		AAAA
ATOM	34	CG	LEU		5	40.321				25.50		AAAA
MOTA	35	221		À		40.108	44.224	60.826				AAAA
ATCH	36	502	LEU	À	ó	40.550	42.032	59.828	1.00			
ATOM	37	C	LEU	A	5	42.818	40.701	61.049		25.74		አጸጸሩ
ATOM	38	-	LEU	à	6	43.877	41.226	60.717		24.50		AAAA
ATOM	39	C = ::	ILE ILE	A	7	42.282	39.704	60.367	1.00			AAAA
ATCM	40	CA	Ξ	A	7	42.939	39.212	59.173	1.00			AAAA
ATOM	41	I3		A	7	42.839	37.712	59.089	1.00	26.58		አみሎች
	42	332	EEE		-	43.474	37.227	57.783	1.00	27.88		aaaa
ATCM	÷3	231	===	:	_	43.528		60.310	1.00	27.02		AAAA
ATCM				Ä	÷	43.507	35.640	60.350	1.00	27.46		ሕሕሕ
ATOM	44	221	ILE ILE	7	<u>.</u>	42.339	39.814	57.929	1.00			ሕሕሕሕ
ATOM	45	-			<u>.</u>	41.162	39.655	57.681		27.68		AAAA.
ATOM	46	2	ΞLΞ	À	,					27.94		AA A
atom	17	H	GLY	À	8	43.144				29.78		AA/ A
ATOM	-;8	CA	GLY		8	42.598	41.110			30.38		AAAA
ATOM	÷0	2	GLY		8	43.587	41.739	55.027				AAAA
ATOM	50	0	GLY	A	8	44.785	41.765			29.39		
ATOM	51	N	THR	λ	9	43.051	42.395			31.64		AAAA
ATCM	52	CA	THR		9	43.832	43.106			32.41		AAAA
ATCM	53	23	THR		9	44.606	42.112	52.064		0 31.12		AAAA
	54	001	THR		9	45.324	42.325	51.053		0 30.74		AAAA
ATOM	55		THR		9	43.654	41.140	51.411	1.0	0 30.27		AAAA
ATOM			THR		9	42.886	43.939		1.0	0 32.94		AAAA
ATCM	56	Ξ				41.705				0 33.62		AAAA
atom	57		THR		9	43.396				0 33.20		AAAA
ATOM	58	11	LEU		10					0 33.29		AAAA
MOTA	59	ÇA	LEU		10 .	42.573	45.840			0 33.12		AAAA
ATOM	50		LEU	À	10	43.117		50.484		0 23.25		AAAA
ATOM	51	CG	LEU		10	43.142	48.245	51.566		0 32-95		
ATOM	62				10	41.743		52.288		0 31.99		AAAA
ATOM	63				10	44.116			1.0	0 34.71		, yyyy
	64		LEU		10	42.527	45.231		1.0	0 33.18		AAAA
ATCM	55		LEU		10	41.376			1.0	0 32.52		AAAA
ATOM	55 66		ASP		11	43.230			1.0	0 33.56		ሕ ሕሕሕ
ATOM	00	••				-		•				•

ATOM	67	CA	ASP A	A 1	1	43.240	43.489	47.716	1.00 34.24	AAAA
	68		ASP A		1	44.393	42.499	47.607	1.00 35.81	AAAA
MOTA										AAAA
ATOM	69	CG	ASP .	A, j	1	45.739	43.190	47.604	1.00 37.57	
MOTA	70	OD1	ASP A	A 1	11	45.890	44.178	46.855	1.00 37.95	AAAA
ATOM	71	OD2	ASP .	Δ 1	1	46.650	42.750	48.332	1.00 40.31	AAAA
									1.00 34.03	AAAA
ATOM -	72		ASP .		11	41.929	42.813	47.341		
ATOM	73	0	ASP .	A 1	.1	41.629	42.652	46.150	1.00 34.80	AAAA
	74	N	TYR .		12	41.142	42.417	48.335	1.00 32.34	AAAA
MOTA										
MOTA	75	CA	TYR .	A]	12	39.871	41.803	48.017	1.00 32.53	AAAA
ATOM	76	CB	TYR .	A 1	L2	39.043	41.569	49.290	1.00 31.32	AAAA
	77		TYR		12	39.551	40.438	50.162	1.00 29.95	AAAA
ATOM		CG								
MOTA	78	CDl	TYR .	A. 3	12	39.983	40.669	51.469	1.00 28.52	AAAA
ATOM	79	CE1	TYR .	A 1	12	40.413	39.614	52 <i>.</i> 279-	1.00 28.03	AAAA
	80	CD2	TYR		12	39.568	39.128	49.688	1.00 28.47	AAAA
MOTA										
MOTA	81	CE2	TYR .	A :	12	39.992	38.083	50.483	1.00 28.47	AAAA
MOTA	82	CZ	TYR .	A :	12	40.408	38.330	51.775	1.00 28.43	- AAAA
	83	ОН	TYR		12	40.786	37.277	52.569	1.00 29.86	AAAA
ATOM									1.00 33.16	AAAA
MOTA	84	С	TYR .		12	39.146	42.749	47.066		
ATOM	85	0	TYR	A :	12	38.554	42.324	46.082	1.00 33.36	AAAA
	86	N	GLY		13	39.237	44.041	47.356	1.00 34.76	AAAA
ATOM								46.546	1.00 36.60	AAAA
ATOM	87	CA	GLY		13	38.594	45.065			
ATOM	88	С	GLY	A :	13	38.814	44.961	45.052	1.00 37.85	AAAA
ATOM	89	0	GLY		13	38.105	45.591	44.275	1.00 37.40	AAAA
							44.171	44.647	1.00 39.55	AAAA
MOTA	90	N	LYS	Α.	14	39.799				
ATOM	91	CA	LYS	A :	14	40.091	43.981	43.231	1.00 40.66	AAAA
ATOM	92	CB	LYS	Δ .	14	41.605	43.977	42.995	1.00 42.26	AAAA
						42.300	45.309	43.239	1.00 44.54	AAAA
ATOM	93	CG	LYS		14					
ATOM	94	CD	LYS	Α :	14	41.820	46.445	42.304	1.00 46.32	AAAA
ATOM	95	CE	LYS	A :	14	42.033	46.158	40.810	1.00 46.64	AAAA
			LYS		14	41.133	45.086	40.256	1.00 47.23	AAAA
ATOM	96	NZ							1.00 40.35	AAAA
ATOM	97	С	LYS	Α.	14	39.499	42.675	42.707		
ATOM	98	0	LYS	Α.	14	39.593	42.377	41.511	1.00 39.97	AAAA
ATOM	99	N	TYR		15	38.897	41.901	43.605	1.00 39.95	AAAA
						38.300	40.617	43.245	1.00 40.30	AAAA
MOTA	100	CA	TYR		15 .					
ATOM	101	CB	TYR	Α	15	38.962	39.490	44.050	1.00 38.46	AAAA
ATOM	102	CG	TYR	A	15	40.472	39.519	44.021	1.00 37.01	AAAA
			TYR		15	41.213	39.136	45.137	1.00 36.24	AAAA
ATOM	103								1.00 35.73	AAAA
ATOM	104	CE1	TYR		15	42.604	39.220	45.144		
ATOM	105	CD2	TYR	Α	15	41.163	39.976	42.902	1.00 36.84	AAAA
ATOM	106	CE2	TYR		15	42.556	40.064	42.898	1.00 36.53	AAAA
							39.689	44.028	1.00 36.24	AAAA
MOTA	107	CZ	TYR		15	43.271				
ATOM	108	OH	TYR	A	15	44.648	39.816	44.042	1.00 36.49	AAAA
ATOM	109	С	TYR	A	15	36.802	40.647	43.556	1.00 41.98	AAAA
			TYR		15	36.288	39.786	44.280	1.00 42.59	AAAA
ATOM	110	0							1.00 42.81	AAAA
ATOM	111	N	ARG	A	16	36.101	41.638	43.014		
ATOM	112	CA	ARG	A	16	34.670	41.753	43.257	1.00 43.47	AAAA
			ARG		16	34.205	43.197	43.111	1.00 45.27	AAAA
ATOM	113	CB				35.021	44.234	43.833	1.00 48.06	AAAA
ATCM	114	CG	ARG		16					
MOTA	115	CD	ARG	Α	16	34.891	44.196	45.339	1.00 49.63	AAAA
ATOM	116	NE	ARG	Α	16	35.632	45.322	45.905	1.00 51.65	AAAA
						35.382	46.602	45.622		AAAA
MOTA	117	CZ	ARG		16					
ATOM	118	NHl	ARG	Α	16	34.406	46.931	44.781	1.00 53.28	AAAA
MOTA	119	NH2	ARG	A	16	36.124	47.560	46.162	1.00 53.43	AAAA
		С	ARG		16	33.913	40.929	42.230	1.00 42.86	AAAA
MOTA	120							41.193	1.00 41.83	AAAA
ATOM	121	0	ARG	A	16	34.455	40.541			
MOTA	122	N	TYR	A	17	32.651	40.668	42.523	1.00 42.42	AAAA
	123	CA	TYR		17	31.818	39.942	41.590	1.00 42.76	AAAA
ATOM							39.254	42.333	1.00 40.11	AAAA
ATOM	124	CB	TYR		17	30.675				
MOTA	125	CG	TYR	Α	17	31.097	38.061	43.180	1.00 38.35	AAAA
	126		TYR		17	32.169	38.148	44.071	1.00 36.15	AAAA
ATOM						32.519	37.069	44.874	1.00 34.76	AAAA
ATOM	127	CE1			17					
ATOM	128	CD2	TYR	A	17	30:386	36.855	43.116	1.00 36.40	AAAA
ATOM	129	CE2		Α	17	30.726	35.776	43.912	1.00 35.31	AAAA
					17	31.792	35.887	44.790	1.00 35.00	AAAA
MOTA	130	CZ	TYR					45.584	1.00 33.29	AAAA
ATOM	131	OH	TYR		17	32.115	34.814			
MOTA	132	С	TYR	Α	17	31.296	41.000	40.613	1.00 44.43	AAAA

						J				
3 TOOM	133	0	TYR A		17	31.346	42.194	40.905	1.00 44.68	AAAA
ATOM ATOM	134		PRO A		18	30.799	40.574	39.440	1.00 45.95	AAAA
MOTA	135		PRO A		18	30.707	39.175	38.994	1.00 46.08	AAAA
MOTA	136		PRO A		18	30.268	41.465	38.402	1.00 47.24	AAAA
ATOM	137		PRO A		18	29.854	40.482	37.312	1.00 47.69	AAAA
ATOM	138		PRO A		18	30.876	39.338	37.511	1.00 46.79	AAAA
ATOM	139		PRO A		18	29.129	42.390	38.834	1.00 48.98	AAAA
ATOM	140		PRO A		18	28.298	42.020	39.660	1.00 49.11	AAAA
MOTA	141		LYS I		19	29.114	43.593	38.253	1.00 50.59	AAAA
ATOM	142		LYS		19	28.125	44.654	38.519	1.00 52.10	AAAA
ATOM	143	CB	LYS	A	19	27.876	45.466	37.246	1.00 54.41	AAAA
ATOM	144		LYS !	A	19	29.120	45.911	36.498	1.00 57.78	AAAA
MOTA	145	CD	LYS .	A	19	28.747	46.508	35.142	1.00 59.34	AAAA ·
ATOM	146	CE	LYS .	A	19	29.978	46.774	34.288	1.00 60.33	AAAA
ATOM	147	NZ	LYS .	A	19	29.616	47.277	32.932	1.00 61.03	AAAA AAAA
ATOM	148	С	LYS .	A	19	26.764	44.162	39.012	1.00 51.53	AAAA
ATOM	149	0 _	LYS .	A	19	26.281	44.556	40.071	1.00 51.54	AAAA
ATOM	150	N	ASN .	A	20	26.146	43.314	38.203	1.00 50.13	AAAA
ATOM	151	CA	ASN	A	20	24.831	42.750	38.482	1.00 49.67	AAAA
ATOM	152	CB	ASN		20	24.336	42.061	37.209 36.613	1.00 45.67	AAAA
MOTA	153	CG	ASN		20	25.389	41.132	37.154	1.00 51.70	AAAA
MOTA	154				20	25.677	40.064	35.509	1.00 53.00	AAAA
ATOM	155		ASN		20	25.998	41.562 41.765	39.649	1.00 45.57	AAAA
ATOM	156	С	ASN		20	24.789 23.764	41.703	39.877	1.00 44.67	AAAA
ATOM	157	0	ASN		20	25.883	41.662	40.398	1.00 42.71	AAAA
MOTA	158	N	HIS		21	25.958	40.709	_	1.00 40.69	AAAA
MOTA	159	CA	HIS		21 21	27.216	39.857	41.353	1.00 40.16	AAAA
MOTA	160	CB	HIS		21	27.186	38.587	42.140	1.00 39.93	AAAA
MOTA	161	CG	HIS HIS		21	27.329	38.353	43.467	1.00 39.27	AAAA
ATOM	162		HIS		21	26.951	37.359	41.557	1.00 39.47	AAAA
MOTA	163 164		HIS		21	26.948	36.425	42.493	1.00 39.36	AAAA
MOTA	165		HIS		21	27.174	37.003	43.660	1.00 39.44	AAAA
ATOM ATOM	166	C	HIS		21	25.974	41.349	42.892	1.00 38.93	AAAA
ATOM	167	<u>o</u> .	HIS		21	26.660	42.338	43.116	1.00 38.78	AAAA
ATOM	168	N	PRO		22	25.229	40.778	43.853	1.00 37.11	AAAA
ATOM	169	CD	PRO		22	24.371	39.579	43.814	1.00 36.09	AAAA
ATOM	170	CA	PRO	Α	22	25.224	41.361	45.199	1.00 35.81	AAAA AAAA
MOTA	171	CB	PRO	Α	22	24.473	40.306	46.012	1.00 36.04 1.00 36.19	AAAA
ATOM	172	CG	PRO	Α	22	23.464	39.810	45.003	1.00 34.39	AAAA
ATOM	173	С	PRO	Α	22	26.638	41.637	45.751 46.417	1.00 34.09	AAAA
ATOM	174	O	PRO		22	26.867	42.653 40.731	45.451	1.00 31.98	AAAA
MOTA	175	N	LEU		23	27.572	40.731	45.900	1.00 29.65	AAAA
ATOM	176	CA	LEU		23	28.954	39.432		1.00 27.88	AAAA
ATOM	177	CB	LEU		23	29.564 28.896		47.048	1.00 27.31	AAAA
MOTA	178	CG	LEU		23	29.656		47.149		LAAA
ATOM	179		LEU		23 23	28.879				AAAA '
MOTA	180		LEU		23	29.838				AAAA
MOTA	181	C O	LEU		23	31.057			1.00 28.38	AAAA
MOTA	182	N	LYS		24	29.204			. 1.00 29.27	AAAA
MOTA	183 184	CA	LYS		24	29.903		43.389	1.00 29.30	AAAA
ATOM	185	CB	LYS		24	28.881				AAAA
ATOM	186	CG	LYS		24	29.328	45.265			AAAA
MOTA MOTA	187	ŒD	LYS		24	28.537				AAAA
ATOM	188	CE	LYS		24	27.025		41.835		AAAA
ATOM	189	NZ	LYS		24	26.221	47.542			AAAA
ATOM	190		LYS		24	30.580			1.00 28.14	AAAA
ATOM	191	õ	LYS		24	31.617				AAAA
ATOM	192		ILE		25	29.990				AAAA AAAA
ATOM	193		ILE		25	30.468			1.00 25.82	AAAA
ATOM	194		ILE		25	29.42				AAAA
ATOM	195	CG2	2 ILE	: A		28.190	46.846			AAAA
ATOM	196	CG1	l ILE			29.14	44.979			
ATOM	197		l ILE			28.31				AAAA .
ATOM	198		ILE	: A	25	31.700	45.550	, 41.095	J 1.00 25.20	
•										

Figure 19-4

ATOM	199	Э	ILE	Α	25	32.037	44.379	47.183	1.00 24.48	AAAA
MOTA	200	N	PRO		26	32.375	46.547	47.714	1.00 24.98	AAAA
	201	CD	PRO		26	32.062	47.980	47.638		
MOTA									1.00 24.98	AAAA
MOTA	202	CA	PRO		26	33.570	46.367	48.543	1.00 24.44	AAAA
MOTA	203	CB	PRO	A	26	34.094	47.792	48.701	1.00 24.75	AAAA
ATOM	204	CG	PRO	A	26	33.435	48.546	47.538	1.00 25.51	AAAA
ATOM	205	С	PRO	A	26	33.021	45.838	49.862	1.00 23.42	AAAA
ATOM	206	õ	PRO		26	31.930	46.233	50.272	1.00 22.12	AAAA
ATOM	207	N	ARG		27	33.754	44.960	50.532	1.00 23.06	
										AAAA
MOTA	208	CA	ARG		27	33.244	44.421	51.776	1.00 23.04	አሉአአ
MOTA	209	CB	ARG		27	32.633	43.043	51.492	1.00 22.20	AAAA
MOTA	210	CG	ARG	Α·	27	31.463	43.152	50.503	1.00 19.84	AAAA
MOTA	211	CD	ARG	Α	27	30.762	41.844	50.160	1.00 18.64	AAAA
ATOM	212	NE	ARG	A	27	30.181	41.168	51.315	1.00 16.51	AAAA
ATOM	213	CZ	ARG	A	27	30.774	40.188	51.982	1.00 16.57	AAAA
ATOM	214		ARG		27	31.969	39.763	51.605	1.00 17.50	AAAA
ATOM	215				27	30.185	39.643	53.038	1.00 16.45	
										AAAA
MOTA	216	С	ARG		27	34.265	44.381	52.905	1.00 23.62	AAAA
ATOM	217	0	ARG		27	34.107	45.077	53.919	1.00 23.69	AAAA
MOTA	218	N	VAL		28	35.305	43.570	52.736	1.00 24.25	AAAA
MOTA	219	CA	VAL	Α	28	36.355	43.466	53.737	1.00 23.36	aaaa
ATOM	220	CB	VAL	A	28	37.022	42.062	53.671	1.00 22.75	AAAA
ATOM	221	CG1	VAL	A	28	38.292	42.031	54.475	1.00 22.95	AAAA
ATOM	222		VAL		28	36.061	41.011	54.249	1.00 22.20	AAAA
ATOM	223	c	VAL		28	37,363	44.609	53.511	1.00 23.70	AAAA
	224	õ	VAL		28	37.943	45.156	54.455	1.00 22.62	
ATOM						37.538				٨٨٨٨
ATOM	225	N	SER		29		44.989	52.253	1.00 24.27	AAAA
MOTA	226	CA	SER		29	38.444	46.082	51.910	1.00 26.03	AAAA
MOTA	227	CB	SER		29	38.632	46.178	50.381	1.00 25.95	AAAA
ATOM	228	OG	SER	Α	29	37.395	46.417	49.716	1.00 27.57	AAAA
MOTA	229	С	SER	A	29	37.793	47.354	52.440	1.00 25.52	aaaa
ATOM	230	0	SER	A	29	38.463	48.311	52.828	1.00 25.49	AAAA
ATOM	231	N	LEU	Α	30	36.468	47.342	52.448	1.00 26.09	AAAA
ATOM	232	CA	LEU		30	35.692	48.471	52.926	1.00 26.39	AAAA
ATOM	233	CB	LEU		30	34.262	48.365	52.393	1.00 25.89	AAAA
	234	CG	LEU		30	33.265	49.470	52.755	1.00 27.15	
ATOM										AAAA
ATOM	235		LEU		30	32.486	49.101	53.999	1.00 26.34	AAAA
MOTA	236		LEU		30	34.015	50.813	52.897	1.00 25.81	AAAA
MOTA	237	C	LEU		30	35.713	48.534	54.453	1.00 26.26	AAAA
ATOM	238	o	LEU		30	35.731	49.612	55.037	1.00 27.50	AAAA
MOTA	239	N	LEU	Α	31	35.730	47.379	55.097	1.00 25.57	AAAA
MOTA	240	CA	LEU	A	31	3 5 .776	47.343	56.545	1.00 26.87	AAAA
MOTA	241	CB	LEU	A	31	35.752	45.900	57.029	1.00 27.28	AAAA
ATOM	242	CG	LEU	Α	31	35.135	45.563	58.383	1.00 27.87	AAAA
ATOM	243		LEU		31	35.855	44.313	58.906	1.00 27.01	AAAA
ATOM	244		LEU	_	31	35 261	46.706	59.372	1.00 26.32	AAAA
ATOM	245	C	LEU		31	35.087	48.003	57.012	1.00 28.08	AAAA
MOTA	246	0	LEU		31	37 094	48.854	57.901	1.00 27.42	AAAA
ATOM	247	N	LEU	A	32	38.197	47.584	56.409	1.00 29.52	AAAA
ATOM	248	CA	LEU		32	39.508	48.121	56.750	1.00 30.96	AAAA
MOTA	249	CB	LEU	A	32	40.607	47.394	55.950°	1.00 31.58	AAAA
ATOM	250	CG	LEU	Α	32	40.792	45.904	56.293	1.00 31.63	AAAA
ATOM	251	CD1	LEU	Α	32	41.810	45.246	55.380	1.00 31.31	AAAA
ATOM	252		LEU		32	41.232	45.780	57.743	1.00 32.23	AAAA
ATOM	253	c	LEU		32	39.599	49.635	56.543	1.00 31.59	AAAA
	254		LEU		32	40.081	50.345	57.416	1.00 31.70	AAAA
ATCM		0						55.398		
ATOM	255	N	ARG		33	39.140	50.129		1.00 32.72	AAAA
MOTA	256	CY	ARG		33	39.178	51.564	55.141	1.00 33.91	AAAA
ATOM	257	CB	ARG		33	38.643	51.903	53.743	1.00 35.10	AAAA
ATOM	258	CG	ARG	A	33	39.627	51.609	52.621	1.00 37.84	AAAA
ATCM	259	CD	ARG		33	39.310	52.412	51.374	1.00 39.33	AAAA
ATOM	260	NE	ARG		33	38.255	51.806	50.580	1.00 42.51	AAAA
ATOM	261	cz	ARG		33	37.662	52.395	49.541	1.00 44.22	AAAA
	262		ARG		33	38.016	53.617	49.163	1.00 44.61	AAAA
ATOM			ARG		33	36.723.		48.861	1.00 45.23	AAAA
ATOM	263					38.352		56.168	1.00 43.23	
ATCM	264	С	ARG	A	33	30.332	52.305	20.100	T.00 33.48	AAAA
										•

ATOM	265	0	ARG A	33		38.713	53.390	56.592	1.00 33.61	AAAA
ATOM	266	N	PHE A	34		37.247	51.682	56.562	1.00 33.78	AAAA
ATOM	267	CA	PHE A	34		36.292	52.233	57.517	1.00 33.79	AAAA
	268	CB	PHE A	34		35.065	51.310	57.573	1.00 33.88	AAAA
ATOM	269	CG	PHE A	34		33.925	51.840	58.405	1.00 33.16	AAAA
MOTA						33.108	52.856	57.925	1.00 32.77	AAAA
ATOM	270		PHE A	34		33.668	51.315	59.672	1.00 33.05	AAAA
atom	271		PHE A	34				58.695	1.00 32.86	AAAA
ATOM	272		PHE A	34		32.044	53.343 51.797	60.454	1.00 32.00	AAAA
MOTA	273		PHE A	34		32.607			1.00 33.07	AAAA
MOTA	274	CZ	PHE A	34		31.794	52.809	59.966		
ATOM	275	С	PHE A	34	-	36.881	52.414	58.918	1.00 34.01	AAAA
ATOM	276	0	PHE A	34		36.903	53.524	59.455	1.00 33.49	AAAA
ATOM	277	N	LYS A	35		37.350	51.324	59.516	1.00 34.00	AAAA
ATOM	278	CA	LYS A	35		37.928	51.401	60.843	1.00 33.90	AAAA
MOTA	279	CB	LYS A	35		38.230	50.010	61.362	1.00 34.07	AAAA
ATOM	280	CG	LYS A	35		37.000	49.190	61.662	1.00 33.94	AAAA
ATOM	281	CD	LYS A	35		37.414	47.810	62.106	1.00 35.31	AAAA
ATOM	282	CE	LYS A	35		38.062	47.072	60.948	1.00 35.91	AAAA
ATOM	283	NZ	LYS A	35		39.058	47.928	60.236	1.00 36.19	AAAA
ATOM	284	C	LYS A	35		39.185	52.255	60.881	1.00 34.19	AAAA
ATOM	285	0	LYS A	35		39.554	52.775	61.929	1.00 34.32	AAAA
ATOM	286	N	ASP A	36		39.853	52.384	59.745	1.00 33.99	AAAA
ATOM	287	CA	ASP A	36		41.034	53.216	59.680	1.00 35.17	AAAA
ATOM	288	CB	ASP A			41.812	52.943	58.388	1.00 37.40	AAAA
ATOM	289	CG	ASP A	36		42.964	53.908	58.186	1.00 38.64	AAAA
	290		ASP A	36		43.648	54.218	59.184	1.00 40.02	AAAA
ATOM ATOM	291		ASP A	36		43.201	54.341	57.035	1.00 38:74	AAAA
	292	C	ASP A	36		40.568	54.670	59.724	1.00 35.85	AAAA
MOTA	293	Ö	ASP A	36	•	41.231	55.527	60.306	1.00 36.88	AAAA
ATOM	294	N	ALA A	37		39.420	54.940	59.111	1.00 34.96	AAAA
ATOM-			ALA A	37		38.851	56.280	59.108	1.00 34.47	AAAA
MOTA	295 296	CA CB	ALA A	37		37.751	56.373	58.067	1.00 33.80	AAAA
ATOM			ALA A	37		38.291	56.617	60.499	1.00 34.66	AAAA
MOTA	297	C	ALA A	37		38.268	57.779	60.899	1.00 34.55	AAAA
MOTA	298	0		38		37.830	55.600	61.226	1.00 34.24	AAAA
ATOM	299	N	MET A	38		37.287	55.794	62.572	1.00 33.07	AAAA
ATOM	300	CA	MET A	38		36.289	54.687	62.917	1.00 32.82	AAAA
MOTA	301	CB	MET A	38		35.084	54.559	61.996	1.00 32.72	AAAA
ATOM	302	CG	MET A	38		33.980	55.948	62.101	1.00 33.65	AAAA
ATOM	303	SD	MET A	38		33.550	55.878	63.849	1.00 33.77	AAAA
ATOM	304	CE	MET A			38.430	55.724	63.583	1.00 33.12	AAAA
MOTA	305	C	MET A			38.226	55.930	64.777	1.00 32.82	AAAA
ATOM	306	0	MET A			39.628	55.428	63.090	1.00 32.64	AAAA
ATOM	307	N	ASN A			40.805	55.266	63.935	1.00 32.38	AAAA
ATOM	308	CA	ASN A			41.200	56.600	64.589	1.00 32.93	AAAA
ATOM	309	CB	ASN A			41.393	57.736	63.571	1.00 34.40	AAAA
MOTA	310	CG	ASN A			42.180	57.624	62.630	1.00 34.98	AAAA
MOTA	311		ASN A			40.677	58.838	63.772	1.00 33.52	AAAA
MOTA	312		ASN A			40.483	54.212	65.009	1.00 31.69	AAAA
ATOM	313	C	ASN A			40.463	54.490	66.205	1.00 31.12	AAAA
ATOM	314	0	ASN A				53.010	64.570		AAAA
MOTA	315	N	LEU A			40.095	51.898	65.474	1.00 32.48	AAAA
MOTA	316	CA	LEU A			39.750		65.386	1.00 32.55	AAAA
ATOM	317	CB	LEU A			38.259	51.559	65.879	1.00 32.84	AAAA
MOTA	.318	CG	LEU A			37.231	52.581		1.00 33.79	AAAA
ATOM	319		LEU A			35.837	52.089	65.554 67.376	1.00 33.75	AAAA
ATOM	320	CD2	LEU A			37.372	52.798	65.187	1.00 32.92	AAAA
ATOM	32,1	C	LEU A			40.555			1.00 32.52	AAAA
ATOM	322	0	LEU A			40.196	49.530	65.618	1.00 31.04	AAAA
ATOM	323	N	ILE A			41.652	50.794	64.464	1.00 34.12	AAAA
ATOM	324	CA	ILE A			42.508	49.680	64.116	1.00 35.51	AAAA
ATOM	325	CB	ILE A			42.017	48.991	62.811	1.00 33.37	AAAA
ATOM	326		: ILE A			42.070	49.952	61.636	1.00 35.37	AAAA
ATOM	327		. ILE A			42.898	47.790	52.480	1.00 35.97	AAAA
ATOM	328	CDI	ILE A			42.854	46.701	63.500	1.00 37.19	AAAA
ATOM	329	С	ILE A			43.921	50.226		1.00 38.85 1.00 38.98	AAAA
ATOM	330	0	ILE A	41		44.106	51.346	63.413	1.00 20.30	MANA
										•

Figure 19-6

						•				
ATOM	331	N	ASP A	A 42		44.914	49.446	64.329	1.00 40.61	AAAA
ATOM	332	CA	AŞP Z			46.309	49.843	64.181	1.00 42.57	AAAA
			_							
ATOM	333	CB	ASP A			46.973	50.021	65.553	1.00 42.42	AAAA
MOTA	334	CG	ASP A			46.316	51.110	66.381	1.00 42.27	AAAA
ATOM	335	OD1	ASP A	A 42		46.227	52.250	65.883	1.00 41.20	AAAA
ATOM.	336	OD2	ASP A	A 42		45.891	50.833	67.526	1.00 43.36	AAAA
ATOM	337	С	ASP A	A 42		47.011	48.752	63.392	1.00 44.05	AAAA
ATOM	338	ō	ASP A			46.525	47.620	63.333	1.00 44.88	'AAAA
									1.00 45.10	
ATOM	339	N	GLU A			48.147	49.090	62.789		AAAA
ATOM	340		GLU /			48.905	48.141	61.980	1.00 46.11	AAAA
MOTA	341	CB	GLU A			50.172	48.796	61.454	1.00 46.89	AAAA
MOTA	342	CG	GLU 2	A. 43		49.924	50.057	60.658	1.00 49.30	AAAA
ATOM	343	CD	GLU A	A 43	•	51.187	50.580	60.028	1.00 49.67	AAAA
MOTA	344	OE1	GLU A			51.760	49.839	59.201	1.00 50.60	AAAA
ATOM	345		GLU Z			51.601	51.714	60.349	1.00 49.60	AAAA
ATOM	346	C	GLU 2			49.290	46.859	62.701	1.00 46.27	· - AAAA
									1.00 46.00	
ATOM	347	0	GLU A			49.214	45.773	62.131		AAAA
ATOM	348	N	LYS A			49.708	46.986	63.954	1.00 46.52	AAAA
MOTA	349	CA	LYS A			50.135	45.832	64.730	1.00 46.31	KAAA
ATOM	350	CB	LYS A	A 44		50.762	46.306	66.048	1.00 48.16	AAAA
MOTA	351	CG	LYS A	A 44		51.977	47.215	65.799	1.00 51.59	AAAA
MOTA	352	CD	LYS 2	A 44		52.641	47.734	67.071	1.00 52.87	AAAA
MOTA	353	CE	LYS 2			53.851	48.601	66.727	1.00 53.34	AAAA
ATOM	354	NZ	LYS 2			54.615	49.033	67.936	1.00 53.45	AAAA
						49.029	44.828	64.996	1.00 44.74	
ATOM	355	C	LYS A							AAAA
ATOM	356	0	LYS A			49.296	43.735	65.480	1.00 45.35	AAAA
ATOM	357	N	GLU Z			47.793		64.659	1.00 42.49	AAAA
ATOM	358	CA	GLU A			46.638	44.320	64.894	1.00 40.54	AAAA
ATOM	359	CB	GLU 2	A 45		45.493	45.125	65.517	1.00 40.55	AAAA
ATOM	360	CG	GLU A	A 45		45.788	45.731	66.882	1.00 38.87	AAAA
ATOM	361	CD	GLU A	A 45		44.663	46.618	67.360	1.00 37.57	AAAA
ATOM	362		GLU Z			44.383	47.631	66.693	1.00 36.29	AAAA
ATOM	363		GLU Z			44.056	46.300	68.399	1.00 38.44	AAAA
	364	C	GLU A			46.126	43.648	63.630	1.00 39.15	AAAA
ATOM										
ATOM	365	0	GLU Z			45.301	42.737	63.681	1.00 39.29	AAAA
ATOM	366	N	LEU A			46.619	44.115	62.497	1.00 37.62	AAAA
MOTA	367	CA	LEU A			46.219	43.589	61.211	1.00 35.88	AAAA
MOTA	368	CB	LEU A	A 46		46.125	44.750	60.229	1.00 36.09	AAAA
MOTA	369	CG	LEU 2	A 46		45.608	44.550	.58.817	1.00 36.50	AAAA
ATOM	370	CD1	LEU 2	A 46		44.182	44.021	58.843	1.00 36.66	AAAA
ATOM	371	CD2	LEU 2	A 46		45.646	45.893	58.113	1.00 35.85	AAAA
ATOM	372	С	LEU A			47.211	42.542	60.714	1.00 34.97	AAAA
ATOM	373	ō	LEU A			48.424	42.670	60.900	1.00 35.72	AAAA
ATOM	374	N	ILE A			46.680	41.484	60.118	1.00 33.25	AAAA
	375·	CA	ILE A			47.497	40.411	59.560	1.00 30.92	AAAA
ATOM									1.00 30.32	
ATOM	376	CB	ILE A			47.144		60.167		AAAA
ATOM	377		ILE A			48.093	37.970	59.640	1.00 28.55	AAAA
ATOM	378		ILE 2			47.220	39.063	61.694	1.00 32.04	AAAA
ATOM	379	CD1	ILE 2	A 47		48.596	39.241	62.242	1.00 34.13	AAAA
ATOM	380	С	ILE A	A 47		47.138	40.381	58.076	1.00 29.70	AAAA
MOTA	381	0	ILE A	A 47		45.956	40.373	57.714	1.00 28.42	AAAA
ATOM	382	N	LYS 2			48.150	40.380	57.221	1.00 28.78	AAAA
ATOM	383	CA	LYS A			47.920	40.349	55.784	1.00 28.42	AAAA
	384	CB	LYS A			49.203	40.727	55.055	1.00 27.53	AAAA
ATOM							40.695			AAAA
MOTA	385	CG	LYS 2			49.116		53.556	1.00 28.97	
MOTA	386	CD	LYS 3			50.464	41.104	52.941	1.00 29.67	AAAA
ATOM	387	CE	LYS A				40.893	51.432	1.00 29.41	AAAA
MOTA	388	NZ	LYS A			49.409	41.645	50.764	1.00 29.68	AAAA
ATOM	389	C	LYS A	A 48		47.449	38.950	55.375	1.00 27.81	AAAA
ATOM	390	0	LYS 2			48.024	37.938	55.787	1.00 27.96	AAAA
ATOM	391	N	SER A			46.385	38.892	54.581	1.00 26.82	AAAA
ATOM	392	CA	SER			45.854	37.611	54.141	1.00 26.41	AAAA
	393		SER A			44.514	37.795	53.420	1.00 25.40	AAAA
ATOM		CB				43.541	38.349	54.276	1.00 25.58	AAAA
ATOM	394	OG	SER							
ATOM	395	C	SER				36.891	53.207	1.00 26.03	AAAA
ATOM	396	0	SER A	A 49		47.462	37.513	52.373	1.00 26.98	AAAA

ATOM	397	N	ARG	A	50	46.910	35.576	53.354	1.00 25.51	AAAA
ATOM	398	CA	ARG		50	47.755	34.794	52.474	1.00 25.45	AAAA
ATOM	399	СВ	ARG	A	50	48.807	33.985	53.252	1.00 25.85	AAAA
ATOM	400	CG	ARG	Α	50	48.229	32.819	54.009	1.00 27.16	AAAA
ATOM	401	CD	ARG	A	50	49.280	31.995	54.720	1.00 27.57	AAAA
ATOM	402	NE	ARG	A	50	48.673	30.896	55.482	1.00 27.90	AAAA
ATOM	403	CZ	ARG	A	50	48.106	29.820	54.946	1.00 28.34	AAAA
ATOM	404	NHl	ARG	Α	50	48.055	29.672	53.630	1.00 28.19	AAAA
ATOM	405	NH2	ARG	A	50	47.592	28.884	55.735	1.00 28.62	AAAA
ATOM	406	С	ARG	A	50	46.806	33.834	51.762	1.00 24.91	AAAA
ATOM	407	0	ARG		50	45.740	33.510	52.283	1.00 23.57	AAAA
ATOM	408	N	PRO		51	47.172	33.392	50.549	1.00 24.28	AAAA AAAA
ATOM	409	CD	PRO		51	48.361	33.761	49.770 49.776	1.00 24.13 1.00 24.18	AAAA
MOTA	410	CA	PRO		51	46.355	32.462 32.512	49.776	1.00 24.18	AAAA
MOTA	411	CB	PRO		51	47.012 47.766	33.862	48.405	1.00 24.11	AAAA
ATOM	412	CG	PRO		51	46.473	31.070	50.393	1.00 23.69	AAAA
MOTA	413	С	PRO PRO		51 51	47.545	30.680	50.839	1.00 24.13	AAAA
MOTA	414 415	N O	ALA		52	45.381	30.325	50.422	1.00 23.36	AAAA
MOTA	416	CA	ALA		52	45.419	28.972	50.952	1.00 23.64	AAAA
MOTA	417	CB	ALA		52	44.012	28.405	51.029	1.00 23.86	AAAA
MOTA ATOM	418	C	ALA		52	46.260	28.145	49.994	1.00 23.58	AAAA
ATOM	419	ō	ALA		52	46.240	28.383	48.806	1.00 24.52	AAAA
ATOM	420	N	THR		53	47.009	27.185	50.501	1.00 24.41	AAAA
ATOM	421	CA	THR		53	47.815	26.352	49.628	1.00 26.26	AAAA
ATOM	422	CB	THR	A	53	48.933	25.642	50.405	1.00 26.37	AAAA
ATOM	423	OG1	THR	A	53	48.355	24.763	51.375	1.00 26.51	AAAA
ATOM	424	CG2	THR	Α	53	49.810	26.648	51.106	1.00 24.48	AAAA
MOTA	425	C	THR	Α	53	46.889	25.299	49.034	1.00 27.63	AAAA AAAA
ATOM	426	0	THR		53	45.870	24.982	49.620	1.00 29.22 1.00 29.31	AAAA
MOTA	427	N	LYS		54	47.240	24.776 23.752	47.867 47.189	1.00 29.31	AAAA
MOTA	428	CA	LYS		54	46.450 47.249	23.732	46.015	1.00 30.61	AAAA
ATOM	429	CB	LYS		54 54 .	46.585	22.020	45.304	1.00 34.38	AAAA
ATOM	430	CG	LYS LYS		54 . 54	45.449	22.464	44.417	1.00 36.00	AAAA
MOTA	431 432	CD	LYS		54	45.943	22.850	43.025	1.00 37.55	AAAA
ATOM	433	NZ	LYS		54	46.425	21.664	42.236	1.00 37.57	AAAA
ATOM ATOM	434	C	LYS		54	46.127	22.640	48.170	1.00 31.26	AAAA
ATOM	435	ŏ	LYS		54	45.025	22.097	48.176	1.00 31.72	AAAA
ATOM	436	N	GLU	Α	55	47.102	22.312	49.006	1.00 31.88	AAAA
ATOM	437	CA	GLU	Α	55	46.961	21.260	50.011	1.00 32.29	AAAA
ATOM	438	CB	GLU		55	48.266	21.089	50.778	1.00 34.43	AAAA AAAA
MOTA	439	CG	GLU		55	48.265	19.901	51.706	1.00 38.39 1.00 41.46	AAAA
MOTA	440	CD	GLU		55	49.513	19.839 18.770	52.584 53.200	1.00 41.40	AAAA ·
MOTA	441		GLU		55	49.745 50.245	20.859	52.672	1.00 42.45	AAAA
MOTA	442		GLU		55	45.851	21.555	51.013	1.00 30.43	AAAA
MOTA	443	C	GLU GLU		55 5 5	45.048	20.681	51.332	1.00 30.59	AAAA
MOTA	444 445	0	GLU		56	45.822	22.782	51.517	1.00 28.23	AAAA
MOTA	446	CA	GLU		56	44.812	23.164	52.488	1.00 27.69	AAAA
atom Mota	147	CB	GLU		56	45.078	24.588	52.989	1.00 27.90	AAAA
ATOM	448	CG	GLU		56	46.434	24.721	53.670	1.00 26.64	AAAA
ATOM	449	CD	GLU		56	46.769	26.135	54.098	1.00 26.35	AAAA
ATOM	450		GLU		56	46.615	27.057	53.265	1.00 25.12	AAAA
ATOM	451		GLU		56	47.213	26.315	55.255	1.00 25.70	AAAA
ATOM	452	C	GLU	A	56	43.408	23.043	51.914		AAAA AAAA
ATOM	453	0	GLU		56	42.495	22.574	52.588	1.00 26.25	AAAA
ATOM	454	N	LEU		57	43.252	23.447	50.659	1.00 27.26 1.00 27.17	AAAA
MOTA	455	CA	LEU		57	41.965	23.389	49.967	1.00 27.17	AAAA
atom	456	СВ	LEU		57	42.077	24.063	48.596 48.656	1.00 20.62	AAAA
ATOM	457	CG	LEU		57	42.491 42.770	25.545 26.108		1.00 26.66	AAAA
ATOM	158		LEU		57 57	42.770	26.341		1.00 26.92	AAAA
MOTA	159		LEU		57 57	41.552	21.946			AAAA
ATOM	460	0	LEU		57 57	40.363	21.612			AAAA
ATOM	461 462	N	LEU		58	42.547	21.085		1.00 27.42	AAAA
atom	302	.,	200	, ,				•		•

Figure 19-8

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ATOM	463	ÇA	LEU A	58	42.293	19.675	49.457	1.00 26.10	AAAA
ATOM	464	CB	LEU A	58	43.486	19.019	48.794	1.00 25.43	AAAA
ATOM	465	CG	LEU A	58	43.623	19.577	47.385		
								1.00 26.66	AAAA
MOTA	466		LEU A	58	44.760	18.884	46.705	1.00 27.12	AAAA
ATOM	467		LEU A	58	42.334	19.355	46.600	1.00 26.43	AAAA
ATOM	468	С	LEU A	58	41.938	18.956	50.731	1.00 25.79	AAAA
ATOM	469	0	LEU A	58	41.648	17.763	50.692	1.00 26.50	AAAA
ATOM	470	N	LEU A	59	41.977	19.666	51.858	1.00 24.91	AAAA
	471	CA	LEU A	59	41.595				
ATOM						19.070	53.136	1.00 25.15	AAAA
MOTA	472	CB	LEU A	59	41.958	19.991	54.322	1.00 25.44	AAAA
ATOM	473	CG	LEU A	59	43.423	20.280	54.710	1.00 24.67	AAAA
ATOM	474	CD1	LEU A	59	43.502	21.461	55.652	1.00 23.70	AAAA
ATOM	475	CD2	LEU A	59	44.044	19.044	55.357	1.00 24.08	AAAA
ATOM	476	C	LEU A	59	40.074	18.870	53.090	1.00 25.41	AAAA
	477			59					
ATOM		0	LEU A		39.503	18.266	53.993	1.00 25.88	AAAA
ATOM	478	N	PHE A	60	39.436	19.392	52.031	1.00 25.05	AAAA
ATOM	479	CA	PHE A	60	37.983	19.276	51.823	1.00 24.11	AAAA
ATOM	480	CB	PHE A	60	37.250	20.476	52.440	1.00 21.80	AAAA
ATOM	481	CG	PHE A	60	35.778	20.534	52.098	1.00 20.07	AAAA
ATOM	482		PHE A	60	34.917	19.501	52.462	1.00 19.27	AAAA
ATOM	483		PHE A	60	35.249	21.628	51.399	1.00 19.82	AAAA
ATOM	484	CE1		60	33.550	19.557	52.136	1.00 19.26	AAAA
MOTA	485		PHE A	60	33.890	21.688	51.071	1.30 17.45	AAAA
ATOM	486	CZ	PHE A	60	33.042	20.652	51.440	1.00 17.92	AAAA
MOTA	487	C	PHE A	60	37.557	19.139	50.345	1.00 24.02	AAAA
ATOM	488	0	PHE A	60	36.846	18.201	49.974	1.00 23.27	AAAA
MOTA	489	N	HIS A	61	37.982	20.079	49.511	1.00 24.40	AAAA
ATOM	490	CA	HIS A	61	37.626	20.053	48.099	1.00 25.04	AAAA
ATOM	491				37.768				
		CB	HIS A	61		21.449	47.494	1.00 24.19	AAAA
MOTA	492	CG	HIS A	61	36.744	22.429	47.979	1.00 24.44	AAAA
ATOM	493	CD2	HIS A	61	35.429	22.559	47.683	1.00 24.12	AAAA
ATOM	494	ND1	HIS A	61	37.038	23.444	48.864	1.00 24.36	AAAA
ATOM	495	CE1	HIS A	61	35.952	24.159	49.089	1.00 23.18	AAAA
ATOM	496	NE2	HIS A	61	34.962	23.643	48.385	1.00 23.91	AAAA
ATOM	497	C	HIS A	61	38.416	19.054	47.253	1.00 25.60	AAAA
ATOM	498	ō	HIS A	61	39.596	18.805	47.498	1.00 26.94	
									AAAA
ATOM	499	N	THR A	62	37.754	18.496	46.244	1.00 26.68	AAAA
ATOM	500	CA	THR A	62	38.369	17.522	45.333	1.00 28.17	AAAA
MOTA	501	CB	THR A	62	37.290	16.695	44.614	1.00 28.15	AAAA
MOTA	502	OG1	THR A	62	36.544	17.541	43.731	1.00 28.10	AAAA
ATOM	503	CG2	THR A	62	36.334	16.094	45.629	1.00 28.24	AAAA
ATOM	504	C	THR A	62	39.226	18.217	44.278	1.00 29.28	AAAA
ATOM	505	ō	THR A	62	38.876	19.286	43.792	1.00 29.52	AAAA
ATOM	506	N	GLU A	63	40.344	17.606	43.912	1.00 23.32	
									AAAA
ATOM	507	CA	GLU A	63	41.249	18.202	42.928	1.00 32.42	AAAA
ATOM	508	CB	GLU A	63	42.333	17.219	42.536		AAAA
ATOM	509	CG	GLU A	63	43.304	16.869	43.609	1 00 37.20	AAAA
MOTA	510	CD	GLU A	63	44.427	16.022	43.052	1 00 38.79	AAAA
ATOM	511	CE1	GLU A	63	45.100	16.499	42.097	1.00 37.96	AAAA
ATOM	512		GLU A	63	44.619	14.892	43.564	1.00 39.68	AAAA
MOTA	513	C	GLU A	63	40.607	18.687	41.639		AAAA
ATOM	514	0	GLU A	63	40.824	19.816	41.215	1.00 32.10	AAAA
ATOM	515	N	ASP A	64	39.845	17.814	40.998	1.00 31.52	AAAA
MOTA	516	CA	ASP A	64	39.204	18.165	39.753	1.00 31.36	AAAA
ATOM	517	CB	ASP A	64	38.301	17.018	39.295	1.00 33.99	AAAA
ATOM	518	CG	ASP A	64	37.213	16.694	40.302	1.00 37.38	AAAA
	519		ASP A	64	36.375	15.801	40.027	1.00 39.80	AAAA
ATOM									
ATOM	520		ASP A	64	37.188	17.332	41.374	1.00 38.67	AAAA
MOTA	521	С	ASP A	64	38.412	19.465	39.902	1.00 30.02	AAAA
ATOM	522	·O	ASP A	64	38.462	20.331	39.026	1.00 30.47	AAAA
ATOM	523	N	TYR A	65	37.695	19.608	41.012	1.00 27.51	AAAA
ATCM	524	CA	TYR A	65	36.918	20.814	41.248	1.00 26.03	AAAA
ATOM	525	CB	TYR A	65	36.010	20.654	42.467	1.00 25.42	AAAA
				65	35.339	21.946	42.866	1.00 24.90	AAAA
ATOM	526	CG	TYR A					_	
ATOM	527		TYR A	65	34.525	22.636	41.964	1.00 25.04	AAAA
MOTA	528	CE1	TYR A	65	33.914	23.823	42.308	1.00 25.01	AAAA.
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Figure 19-9

ATOM	529	CD2	TYR	A	65	35.525	22.486	44.136	1.00 24.65	ሕ ል ልሕ
ATOM	530	CE2	TYR		65	34.920	23.677	44.497	1.00 25.86	AAAA
MOTA	531	CZ	TYR		65	34.110	24.349	43.576	1.00 26.69	AAAA
	532	OH	TYR		65	33.499	25.543	43.924	1.00 27.20	AAAA
MOTA	533	C	TYR		65	37.814	22.022	41.464	1.00 24.91	AAAA
•••			TYR		65	37.460	23.129	41.096	1.00 25.62	AAAA
MOTA	534	0			56	38.965	21.812	42.080	1.00 23.20	AAAA
ATOM	535	и -	ILE		5 6	39.877	22.902	42.328	1.00 22.33	AAAA
MOTA	536	CA	ILE			40.924	22.520~		1.00 21.45	AAAA
ATOM	537	CB	ILE		66		23.652	43.617	1.00 20.00	AAAA
ATOM	538		ILE		56	41.927	22.289	44.729	1.00 20.16	AAAA
MOTA	539		ILE		66 -	40.220		45.228	1.00 19.68	AAAA
MOTA	540		ILE		66	39.528	23.523	41.023	1.00 22.68	AAAA AAAA
MOTA	541	С	ILE		56	40.558	23.261	40.665	1.00 23.19	AAAA
MOTA	542	0	ILE		66	40.636	24.425	40.295	1.00 23.13	AAAA
ATOM	543	N	ASN		67	41.036	22.262	39.029	1.00 23.92	AAAA
MOTA	544	CA	ASN		67	41.698	22.545	38.395	1.00 23.32	AAAA
ATOM	545	CB	ASN		67 .	42.292	21.261	39.289	1.00 23.38	AAAA
MOTA	546	CG	ASN		67	43.344	20.588	39.859	1.00 23.38	AAAA
MOTA	547		ASN		67	44.196	21.256	39.392	1.00 23.47	AAAA
ATOM	548		ASN		67	43.290	19.258		1.00 23.20	AAAA
MOTA	549	С	ASN		67	40.717	23.216	38.063	1.00 24.63	AAAA
ATOM	550	0	ASN		57	41.123	23.996	37.204	1.00 24.03	AAAA
MOTA	551	N	THR		68	39.427	22.928	38.213		AAAA
ATOM	552	CA	THR		68	38.428	23.534	37.343	1.00 25.28	
MOTA	553	CB	THR		68	37.030	22.904	37.525	1.00 24.55 1.00 24.64	AAAA AAAA
MOTA	554		THR		68	37.090	21.500	37.258	1.00 24.64	AAAA
MOTA	555	CG2	THR		58	36.049	23.534	36.564	1.00 25.38	AAAA
ATOM .	556	C	THR		68	38.322	25.023	37.664	1.00 26.69	AAAA
ATOM	557	0	THR		68	38.114	25.854	36.771	1.00 26.59	AAAA
ATOM	558	N	LEU		69	38.462	25.351	38.945		AAAA
ATOM	559	CA	LEU		59	38.381	26.729	39.378	1.00 27.05 1.00 27.15	AAAA
MOTA	560	CB	LEU		69	38.321	26.807	40.904		AAAA
ATOM	561	CG	LEU		69	37.003	26.397	41.551	1.00 25.68 1.00 26.30	AAAA
MOTA	562		LEU		69	37.088	26.491	43.062	1.00 26.30	AAAA
ATOM	563		LEU		69	35.933	27.316	41.044	1.00 28.44	AAAA
MOTA	564	С	LEU		69	39.570	27.508	38.867	1.00 28.59	AAAA
MOTA	565	0	LEU		.69	39.425	28.619	38.356 39.009	1.00 28.33	AAAA
MOTA	566		MET		70	40.748	26.914	38.571	1.00 29.89	AAAA
ATOM	567	CA	MET		70	41.981	27.536	39.044	1.00 23.03	AAAA
MOTA	568	CB	MET		70	43.160	26.692 26.528	40.562	1.00 31.79	AAAA
ATOM	569	CG	MET		70	43.164	25.684	41.183	1.00 32.58	AAAA
ATOM	570	SD	MET		70	44.608	26.820	40.670	1.00 32.30	AAAA
Mota	571	CE	MET		70	45.859		37.057	1.00 30.36	AAAA
MOTA	572	C	MET.		70	42.017	27.723 28.769	36.559	1.00 30.30	AAAA
MOTA	573	0	MET	À	70	42.462			1.00 30.34	AAAA
MOTA	. 574		GLU		71	41.538		34.874	1.00 30.73	AAAA
ATOM	575	CA	GLU		71	41.519	26.795	. 34.266	1.00 33.47	AAAA
ATOM	576	CB	GLU		71	41.140		32.731	1.00 37.11	AAAA
ATOM	577	CG	GLU		71	41.122		32.731	1.00 40.49	AAAA
MOTA	578	CD	GLU		71	42.513				AAAA
ATOM	579		GLU		71	42.570		30.844	1.00 40.74	AAAA
ATOM	580		GLU		71	43.541		32.825	1.00 40.74	AAAA
ATOM	581	C	GLU		71	40.537		34.392		AAAA
MOTA	582	0	GLU		71	40.852		33.508	1.00 27.82 1.00 29.85	AAAA
MOTA	583	N	ALA		72	39.352		34.992		AAAA
MOTA	584	CA	ALA		72	38.296		34.635	1.00 29.88	AAAA
ATOM	585	CB	λLλ		72	37.022		35.374	1.00 29.07	AAAA
ATOM	586	C	ALA		72	38.667		34.907	1.00 30.78	AAAA
ATOM	587	0	ALA		72	38.359		34.108	1.00 31.27	AAAA
ATOM	588	N	GLU		73	39.336		36.023	1.00 31.07	AAAA
ATOM	589	CA	GLU		73	39.710		36.346	1.00 31.65	
ATOM	590	CB	GLU		73	40.243		37.785	1.00 30.52	AAAA
ATOM	591	CG	GLU	A	73	40.643		38.198		AAAA
ATOM	592	CD	GLU		73	41.076		39.651	1.00 28.77	AAAA
ATOM	593	CE1	GLU	А	73	40.239				AAAA
ATOM	594	OE2	GLU	A	73	42.258	33.795	_39.906	1.00 28.57	AAAA

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ATOM	595	С	GLU A	73	40.726	32.461	35.378	1.00 33.54 ·	AAAA
	596	0	GLU A	73	40.456	33.499	34.767	1.00 34.93	AAAA
ATOM								- · · · · · · · · ·	
ATOM	597	N	ARG A	74	41.885	31.832	35.214	1.00 34.35	AAAA
ATOM	598	CA	ARG A	74	42.890	32.428	34.334	1.00 36.04	AAAA
	599	CB	ARG A	74	44.238	31.710	34.482	1.00 36.92	AAAA
MOTA									
ATOM-	600	CG	ARG A	74	44.327	30.313	33.923	1.00 38.14	AAAA
MOTA	601	CD	ARG A	74	45.508	29.589	34.543	1.00 39.55	AAAA
								1.00 42.02	
ATOM	602	NE	ARG A	74	45.893	28.404	33.785		AAAA
ATOM	603	CZ	ARG A	74	46.632	28.436	32.675	1.00 42.69	AAAA
	604		ARG A	74	47.071	29.593	32.191	1.00 42.76	AAAA
MOTA									
ATOM	605	NH2	ARG A	74	46.933	27.309	32.046	1.00 42.92	AAAA
ATOM	606	С	ARG A	74	42.476	32.532	32.864	1.00 36.56	AAAA
	607	0	ARG A	74	42.842	33.493	32.187	1.00 37.73	AAAA
MOTA				-					
MOTA	608	N	SER A	75	41.711	31.567	32.367	1.00 36.60	AAAA
ATOM	609	CA	SER A	75	41.248	31.622	30.987	1.00 36.82	AAAA
ATOM	610	CB	SER A	75	40.916	30.218	30.478	1.00 36.10	- AAAA
atom	611	OG	SER A	75	39.736	29.723	31.083	1.00 36.39	AAAA
ATOM	612	С	SER A	75	39.980	32.476	31.001	1.00 36.90	AAAA
ATOM	613	0	SER A	[.] 75	39.401	32.791	29.963	1.00 36.25	AAAA
				_			32.208	1.00 37.62	
MOTA	614	И	GLN A	76	39.568	32.845			AAAA
ATOM	615	CA	GLN A	76	38.368	33.639	32.427	1.00 37.92	AAAA
MOTA	61 Ġ	CB	GLN A	76	38.613	35.100	32.049	1.00 38.23	AAAA
MOTA	617	CG	GLN A	76	37.630	36.048	32.717	1.00 40.67	AAAA
ATOM	618	CD	GLN A	76	37.929	36.298	34.199	1.00 41.40	AAAA
ATOM	619	OF1	GLN A	76	38.226	35.379	34.973	1.00 40.79	AAAA
						37.556	34.597	1.00 42.32	AAAA
ATOM	620	NEZ	GLN A	76	37.833				
ATOM	621	C	GLN A	76	37.223	33.064	31.600	1.00 37.75	AAAA
ATOM	622	0	GLN A	76	36.521	33.789	30.901	1.00 38.13	AAAA
						31.749	31.685	1.00 37.52	AAAA
MOTA	623	N	SER A	7 7	37.045				
ATOM	624	CA	SER A	77	35.990	31.061	30.950	1.00 37.75	AAAA
MOTA	625	CB	SER A	77	36.537	30.440	29.664	1.00 37.90	AAAA
				77	36.851	31.441	28.724	1.00 40.32	AAAA
atom	626	OĢ	SER A						
MOTA	627	С	SER A	7 7	35.338	29.960	31.757	1.00 37.55	AAAA
MOTA	628	0	SER A	77	35.790	29.620	32.846	1.00 36.81	AAAA
	629	N	VAL A	78	34.264	29.412	31.198	1.00 37.82	AAAA
ATOM									
MOTA	630	CA	VAL A	78	33.538	28.309	31.812	1.00 37.99	AAAA
ATOM	631	CB	VAL A	78	32.027	28.514	31.715	1.00 37.19	АААА
ATOM	632		VAL A	78	31.310	27.439	32.497	1.00 36.84	AAAA
ATOM	633		VAL A	78	31.662	29.906	32.201	1.00 37.60	AAAA
ATOM	634	С	VAL A	78	33.918	27.089	30.976	1.00 38.28	AAAA
ATOM	635	0	VAL A	78	33.497	26.959	29.819	1.00 39.18	AAAA
					34.734	26.187	31.537	1.00 37.69	AAAA
ATOM	636	N	PRO A	79					
ATOM	637	CD	PRO A	79	35.347	26.167	32.869	1.00 37.65	AAAA
ATOM	638	CA	PRO A	79	35.146	24.998	30.797	1.00 37.54	AAAA
	639	CB	PRO A	79	36.127	24.325	31.759	1.00 37.45	AAAA
atom									
ATOM	640	CG	PRO A	79	36.655	25.489	32.557	1.00 37.65	AAAA
MOTA	641	С	PRO A	79	33.980	24.089	30.434	1.00 37.20	KAAA .
ATOM	642	ō	PRO A	79	32.958	24.050	31.120	1.00 36.43	AAAA
ATOM	643	N	LYS A	80	34.154	23.363	29.338	1.00 37.42	AAAA
ATOM	644	CA	LYS A	80	33.160	22.423	28.855	1.00 37.35	AAAA
ATOM	645	CB	LYS A	80	33.757	21.586	27.725	1.00 37.99	AAAA
									AAAA
ATOM	646	CG	LYS A	80	32.928	20.379	27.280	1.00 38.94	
ATOM	647	CD	LYS A	80	31.835	20.710	26.286	1.00 39.07	AAAA
ATOM	.648	CE	LYS A	80	31.320	19.402	25.688	1.00 40.43	AAAA
							24.450	1.00 40.48	AAAA
MOTA	649	NZ	LYS A	80	30.498	19.543			
ATOM	650	С	LYS A	80	32.752	21.515	30.003	1.00 36.85	AAAA
ATOM	651	0	LYS A	80	33.610	20.942	30.676	1.00 36.56	AAAA
					31.443	21.408	30.217	1.00 35.94	AAAA
ATOM	652	N .	GLY A	81					
ATOM	653	CA	GLY A	81	30.903	20.570	31.268	1.00 35.48	AAAA
ATOM	⁻ 654	С	GLY A	81	31.110	21.054	32.695	1.00 35.23	AAAA.
					30.749	20.355	33.644	1.00 35.46	AAAA
ATOM	655	0	GLY A	81					
ATOM	656	N	ALA A	82	31.677	22.241	32.867	1.00 35.17	AAAA
ATOM	657	CA	ALA A	82	31.919	22.743	34.213	1.00 35.02	AAAA
	658	CB	ALA A	82	33.076	23.743	34.208	1.00 35.13	AAAA
ATOM									
ATOM	659	С	ALA A	82	30.674	23.378	34.797	1.00 34.39	AAAA
ATOM	660	0	ALA A	82	30.451	23.332	36.001	1.00 33.82	AAAA
									_

; **226/263** Figure 19-11

ATOM	661	N	ARG A	83	29.858	23.960	33.932	1.00 34.77	AAAA
ATOM	662	CA	ARG A	83	28.637	24.613	34.361	1.00 35.34	AAAA
					27.899	25.180	33.150	1.00 36.26	AAAA
MOTA	663	CB	ARG A	83					
ATOM	664	CG	ARG A	83	27.045	26.395	33.464	1.00 37.09	AAAA
ATOM	665	CD	ARG A	83	26.209	26.141	34.686	1.00 37.48	AAAA
ATOM	666	NE	ARG A	83	25.475	27.310	35.134	1.00 37.35	AAAA
ATOM	667	CZ	ARG A	83	24.711	27.311	36.218	1.00 37.77	AAAA
	668		ARG A	83	24.606	26.204	36.940	1.00 37.29	AAAA
ATOM							36.568	1.00 38.34	AAAA
MOTA	669	NH2	ARG A.		24.040	28.401			
ATOM	670	С	ARG A	83	27.739	23.603	35.065	1.00 36.30	AAAA
ATOM	671	0	ARG A	83	27.232	23.854	36.154	1.00 36.17	AAAA
ATOM	672	N	GLU A	84	27.565	22.450	34.431	1.00 37.19	AAAA
ATOM	673	CA	GLU A	84	26.721	21.382	34.948	1.00 37.80	AAAA .
	674	CB	GLU A	84	26.466	20.375	33.833	1.00 40.55	AAAA
ATOM						.19.171	34.232	1.00 43.12	AAAA
ATOM	675	CG	GLU A	84					
ATOM	676	CD	GLU A	84	25.362	18.268	33.046	1.00 44.98	AAAA
ATOM	677	OE1	GLU A	84	24.573	17.301	33.195	1.00 46.36	AAAA
ATOM	678	QE2	GLU A	84	25.937	18.532	31.962	1.00 44.94	AAAA
ATOM	679	С	GLU A	84	27.290	20.657	36.158	1.00 37.07	AAAA
ATOM	680	Ō	GLU A	84	26.642	20.555	37.199	1.00 36.17	AAAA
	581	N	LYS A	85	28.506	20.152	35.999	1.00 36.23	AAAA
MOTA							37.043	1.00 35.36	AAAA
MOTA	682	CA	LYS A	85	29.202	19.412			
MOTA	683	CB	LYS A	85	30.449		36.437	1.00 36.96	AAAA
ATOM	584	CG	LYS A	85	31.394	18.158	37.465	1.00 39.04	AAAA
ATOM	685	CD	LYS A	85	30.995	16.766	37.919	1.00 40.59	AAAA
ATOM	686	CE	LYS A	85	31.508	15.719	36.933	1.00 41.88	AAAA
	687	NZ	LYS A	85	32.998	15.817	36.757	1.00 42.00	AAAA
ATOM					29.620	20.202	38.289	1.00 33.86	AAAA
ATOM	688	C	LYS A	85			39.404	1.00 33.82	AAAA
ATOM	689	0	LYS A	85	29.576	19.679			
ATOM	690	N	TYR A	86	30.014	21.458	38.097	1.00 32.06	AAAA
ATOM	691	CA	TYR A	86	30.514	22.279	39.194	1.00 29.44	AAAA
ATOM	692	CB	TYR A	86	31.956	22.683	38.875	1.00 29.97	AAAA
MOTA	693	CG	TYR A	86	32.872	21.496	38.621	1.00 29.99	AAAA
ATOM	694	CD1		86	33.281	20:666	39.666	1.00 29.24	AAAA
	695		TYR A	86	34.126	19.582	39.437	1.00 29.85	AAAA
MOTA					.33.329	21.204	37.329	1.00 30.16	AAAA
ATOM	696	CD2		86			37.087	1.00 29.61	AAAA
MOTA	697	CE2	TYR A	86	34.173	20.118			
ATOM	698	ÇΖ	TYR A	86	34.570	19.313	38.148	1.00 29.79	AAAA
ATOM	599	OH	TYR A	86	35.414	18.253	37.923	1.00 29.48	AAAA
ATOM	700	C	TYR A	86	29.705	23.509	39.572	1.00 27.81	AAAA
ATOM	701	0	TYR A	86	30.052	24.202	40.524	1.00 27.56	AAAA
ATOM	702	N	ASN A	87	28.642	23.784	38.828	1.00 26.60	AAAA
	703	CA	ASN A	87	27.777	24.924	39.111	1.00 26.56	AAAA
MOTA					27.172	24.772	40.508	1.00 26.39	AAAA
MOTA	704	CB	ASN A	87				1.00 26.64	AAAA
MOTA	705	CG	asn a	87	25.863	25.544	40.684	1.00 20.04	
MOTA	706	OD1	ASN A	87	25.335			1.00 26.84	AAAA
ATOM	707	ND2	ASN A	87	25.330	26.084	39.597	1.00 26.33	AAAA
ATOM	708	Ç	ASN A	87	28.587	26.217	39.024	1.00 26.40	AAAA
ATOM	709	0 ~	ASN A	87	28.430	27.129	39.832	1.00 24.80	AAAA
	710	N	ILE A	88	29.448	26.273	38.015	1.00 27.57	AAAA
MOTA					30.330	27.409	37.767	1.00 27.88	AAAA
atom	711	CA	ILE A	88				1.00 27.38	AAAA
ATOM	712	CB	ILE A	88	31.817	26.932	37.648		
ATOM	713	CG2	ILE A	88	32.684	27.994	36.986	1.00 26.34	AAAA
ATOM	714	CG1	ILE A	88	32.354	26.543	39.026	1.00 28.35	AAAA
ATOM	715		ILE A	88	32.356	27.671	40.042	1.00 27.78	AAAA
ATOM	716	c	ILE A	88		28.110	36.472	1.00 29.17	AAAA
		: :	ILE A	88	29.530	27.469	35.515	1.00 29.75	AAAA
ATOM	717					29.429	36.443	1.00 29.96	AAAA
ATOM	718	N	GLY A	89	30.092			1.00 29.30	AAAA
ATOM	719	CA	GLY A	89	29.791	30.162	35.229		
ATOM	720	С	GLY A	89	28.430	30.805	35.242	1.00 30.44	AAAA
MOTA	721	O	GLY A	89	28.177	31.769	34.514	1.00 31.14	AAAA
ATOM	722	N	GLY A		27.542	30.268	36.061	1.00 30.00	AAAA
	723	CA	GLY A		26.221	30.841	36.129	1.00 30.52	AAAA
MOTA			GLY A		26.283	32.262	36.661	1.00 31.09	AAAA
ATOM	724	C				32.795	36.962	1.00 30.34	AAAA
ATCM	725	0	GLY A		27.356		36 360	1.00 31.09	AAAA
ATOM	726	N	TYR A	91	25.112	32.873	36.768	1.00 31.03	2000

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ATOM	727	CA	TYR A	91	. 24.977	34.213	37.290	1.00 31.27	AAAA
ATOM	728	CB	TYR A	91	23.515	34.634	37.195	1.00 31.82	AAAA
ATOM	729	CG	TYR A		23.169	35.825	38.047	1.00 31.81	AAAA
MOTA	730	CD1		91	23.536	37.108	37.670	1.00 32.44	AAAA
ATOM	731	CEl	TYR A	91	23.250	38.203	38.475	1.00 31.88	AAAA
ATOM	732	CD2	TYR A	91	22.505	35.6 63	39.254	1.00 32.63	AAAA
	733	CE2	TYR A	91	22.215	36.754	40.068	1.00 32.60	
MOTA									AAAA
ATOM	734	CZ	TYR A	91	22.589	38.016	39.668	1.00 31.59	· AAAA
ATOM	735	OH	TYR A	91	22.283	39.094	40.450	1.00 31.94	AAAA
	736	C	TYR A	91	25.384	34.202	38.753	1.00 31.56	AAAA
ATOM	_								
ATOM	737	0	TYR A	91	26.075	35.105	39.233	1.00 31.21	AAAA
ATOM	738	N	GLU A	92	24.925	33.158	39.438	1.00 31.51	AAAA
ATOM	739	CA	GLU A	92	25.143	32.941	40.865	1.00 32.70	AAAA
ATOM	740	CB	GLU A	_	24.463	31.626	41.268	1.00 33.55	AAAA
ATOM	741	CG	GLU A	92	24.174	31.495	42.747	1.00 34.16	AAAA
ATOM	742	CD	GLU A	92	23.311	30.278	43.087	1.00 35.31	AAAA
ATOM	743		GLU A		23.857	29.148	43.152	1.00 34.30	AAAA
MOTA	744	OEZ	GLU A		22.076	30.466	43.275	1.00 35.36	AAAA
MOTA	745	C	GLU A	92	26.619	32.902	41.248	1.00 33.02	AAAA
ATOM	746	0	GLU A	92	27.073	33.623	42.140	1.00 32.91	AAAA
	747	N	ASN A		27.358	32.049	40.550	1.00 32.84	AAAA
MOTA									
ATOM	748	CA	ASN A	93	28.785	31.861	40.777	1.00 31.92	AAAA
MOTA	749	CB	ASN A	93	29.015	30.437	41.278	1.00 31.18	AAAA
MOTA	750	CG	ASN A	93	27.948	29.994	42.259	1.00 30.34	AAAA
					27.723	30.642	43.271	1.00 31.20	
ATOM	751		ASN A						AAAA
MOTA	752	ND2	ASN A	93	27.284	28.892	41.955	1.00 29.02	AAAA
ATOM	753	С	ASN A	93	29.442	32.052	39.411	1.00 30.84	AAAA
ATOM	754	0	ASN A	93	29.823	31.082	38.758	1.00 30.82	AAAA
	755		PRO A		29.605	33.309	38.975	1.00 29.56	
MOTA		N							AAAA
ATOM	756	CD	PRO A	94	29.312	34.590	39.626	1.00 29.03	AAAA
ATOM	757	CA	PRO A	94	30.209	33.564	37.671	1.00 28.89	AAAA
ATOM	758	CЗ	PRO A	94	29.890	35.045	37.416	1.00 28.22	AAAA
	759				28.839	35.377	38.435	1.00 29.50	AAAA
MOTA		CG	PRO A						
ATOM	760	С	PRO A	94	. 31.698	33.351	37.664	1.00 28.25	AAAA
ATOM	761	0	PRO A	94	32.308	32.996	38.671	1.00 28.21	AAAA
ATOM	762	N	VAL A	95	32.257	33.593	36.488	1.00 27.36	AAAA
	763	CA	VAL A		33.676	33.530	36.247	1.00 26.24	AAAA
MOTA									
MOTA	764	CB	VAL A		33.945	33.289	34.741	1.00 26.10	AAAA
ATOM	765	CG1	VAL A	95	35.373	33.717	34.357	1.00 25.47	AAAA
MOTA	766	CG2	VAL A	95	33.736	31.826	34.434	1.00 25.59	AAAA
MOTA	767	C	VAL A		34.178	34.919	36.647	1.00 26.56	AAAA
MOTA	768	0	VAL A		33.560	35.937	36.307	1.00 27.18	AAAA
MOTA	769	N	SER A	96	35.280	34.966	37.382	1.00 25.23	AAAA
MOTA	770	CA	SER A	96	35.858	36.237	37.790	1.00 24.51	AAAA
ATOM	771	C3	SER A		34.935	36.961	38.774	1.00 23.22	AAAA
								_	
ATOM	772	OG	SER A		34.941	36.297	40.014	1.00 19.76	AAAA
ATOM	773	C	SER A	96	37.169	35.920	38.485	1.00 24.84	AAAA
MOTA	774	С	SER A		37.590	34.764	38.530	1.00 25.97	AAAA
	775	N	TYR A		37.824	36.933	39.030	1.00 24.02	AAAA
ATOM									
ATOM	776	CA	TYR A		39.047	36.664	39.744	1.00 24.55	AAAA
MOTA	777	CE	TYR A	97	40.071	37.762	39.504	1.00 23.94	AAAA
MOTA	778	CG	TYR A		40.682	37.636	38.128	1.00 23.72	AAAA
	779				40.177	38.341	37.039	1.00 23.11	AAAA
ATOM			TYR A						
MOTA	780		TYR A		40.700	38.136	35.758	1.00 23.50	AAAA
MOTA	781	CD2	TYR A	97	41.717	36.735	37.903	1.00 22.25	AAAA
ATOM	782	CE2	TYR A		42.236	36.526	36.640	1.00 22.86	AAAA
					41.730	37.217	35.572	1.00 23.56	AAAA
ATOM	783	CS	TYR A						
MOTA	784	CH	TYR A		42.232	36.941	34.318	1.00 24.06	AAAA
MOTA	785	C	TYR A	97	38.800	36.436	41.228	1.00 25.08	AAAA.
ATOM	786	ō	TYR A		39.739	36.266	42.009	1.00 26.91	AAAA
							41.589	1.00 24.73	AAAA
ATCM	787	:1	ALA A		37.522	36.406			
ATOM	788	CA	ALA A		37.083	36.159	42.951	1.00 24.50	AAAA
ATOM	789	CB	ALA A	98	35.800	36.925	43.235	1.00 24.48	AAAA
ATCM	790	c	ALA A		36.824	34.661	43.088	1.00 23.95	AAAA
							44.171	1.00 24.21	AAAA
atom	791	0	ALA A		36.929	34.100			
ATCM	792	N	MET A	99	36.502	34.011	41.976	1.00 23.10	AAAA
							•		

ATOM	793	CA	MET A	99	36.208	32.584	42.000	1.00 22.61	አአአአ
MOTA	794	CB	MET A	99	35.855	32.089	40.597	1.00 23.25	AAAA
ATOM	795		MET A		37.009	32.063	39.607	1.00 23.22	 ሕሕሕሕ
	796		MET A		36.360	31.808	37.952	1.00 25.21	AAAA
MOTA					35.328	30.374	38.258	1.00 22.04	AAAA
MOTA	797		MET A				42.581	1.00 21.80	AAAA
MOTA	798	С	MET ?		37.319	31.720			
MOTA	799	0	MET A	A 99	37.052	30.695	43.199	1.00 21.29	AAAA
MOTA	800	N _	PHE A	100	38.567	32.111	42.380	1.00 21.87	ኢሕሕ
ATOM	801	CA		100	39.650	31.322	42.936	1.00 21.11	AAAA
	802	CE		A 100	40.388	30.552	41.841	1.00 20.25	AAAA
ATOM					42 453	29.648	42.375	1.00 20.14	AAAA
MOTA	803	CG			·	28.462	43.010	1.00 20.49	AAAA
ATOM	804			A 100	41.114		42.373	1.00 19.82	AAAA
ATOM	805			A 100	42.785	30.050			
ATOM	806	CE1	PHE A	A 100	42.090	27.695	43.646	1.00 19.54	AAAA
ATOM	807	CE2	PHE A	A 100	43.755	29.300	43.001	1.00 19.22	AAAA
ATOM	808	CZ	PHE A	A 100	43.410	28.122	43.641	1.00 19.47	AAAA
	809	c		A 100	40.649	32.161	43.743	1.00 21.37	AAAA
MOTA	810	0		A 100	40.959	31.822	44.887	1.00 21.26	AAAA
MOTA					41.142	33.252		1.00 20.94	AAAA.
MOTA	811	N		A 101			43.847	1.00 21.95	AAAA
MOTA	312	CA		A 101	42.119	34.097		1.00 22.21	AAAA
MOTA	813	CB	THR .	A 101	42.691	35.181	42.905		
ATOM	814	OG1	THR .	A 101	43.511	34.552	41.917	1.00 22.90	AAAA
ATOM	815	CG2	THR	A 101	43.535	36.186	43.667	1.00 21.38	AAAA
	816	C .		A 101	41.584	34.755	45.117	1.00 22.60	AAAA
MOTA	817	ō		A 101	42.248	34.723	46.147	1.00 23.38	AAAA
MOTA				A 102	40.394	35.343	45.049	1.00 22.13	٨٨٨٨
MOTA	818	N			39.826	35.972	46.227	1.00 22.03	AAAA
MOTA	819	CA		A 102			47.221	1.00 21.36	AAAA
MOTA	820	C		A 102	39.340	34.928		1.00 20.02	AAAA
ATOM	821	0		A 102	39.433	35.104	48.439		AAAA
MOTA	822	N		A 103	38.816	33.833	46.677	1.00 21.86	
MOTA	823	CA	SER	A 103	38.311	32.719	47.466	1.00 21.68	AAAA
ATOM	824	CB		A 103	37.699	31.668	46.557	1.00 21.56	AAAA
ATOM	825	ŌĞ		A 103	36.604	32.216	45.857	1.00 23.67	AAAA
	826	C		A 103	39.450	32.098	48.229	1.00 22.67	AññA
ATOM	827	. 0		A 103	39.314	31.806	49.412	1.00 22.44	AAAA
ATOM				A 104	40.578	31.898	47.545	1.00 23.37	AAAA
MOTA	828	N			41.746	31.305	48.183	1.00 23.50	AAAA
MOTA	829	CA		A 104		31.070	47.172	1.00 24.80	AAAA
ATOM	830	СВ		A 104	42.862		46.175	1.00 28.38	AAAA
ATOM	831	OG	SER	A 104	42.441	30.169		1.00 28.38	AAAA
ATOM	832	С	SER	A 104	42.254	32.230	49.256		AAAA
ATOM	833	0	SER	A 104	42.707	31.794	50.307	1.00 22.66	
ATOM	834	N	LEU	A 105	42.160	33.518	48.970	1.00 22.08	AAAA
ATOM	835	CA		A 105	42.626	34.541	49.870	1.00 21.70	AAAA
ATOM	836	CB		A 105	42.524	35.882	49.159	1.00 21.89	AAAA
	837	. CG		A 105	43.332	37.038	49.718	1.00 23.64	AAAA
ATOM				A 105	44.830	36.692	49.639	1.00 22.01	AAAA
MOTA	838				43.004	38.304	48.919	1.00 23.60	AAAA
MOTA	839		LEU	A 105		34.525	51.131	1.00 22.29	AAAA
ATOM	840	С		A 105	41.767		52.249	1.00 21.95	AAAA
ATOM	841	0		A 105	42.277	34.595		1.00 22.23	AAAA
ATOM	842	N		A' 106	40.458	34.429	50.934		
ATOM	843	CA	ALA	A 106	39.515	34.394	52.042	1.00 22.32	AAAA
ATOM	344	CB	ALA	A 106	38.068	34.472	51.526	1.00 22.05	AAAA
ATOM	845	С	aLA	A 106	39.704	33.126	52.840	1.00 21.99	AAAA
ATOM	846	ō		A 106	39.578	33.145	54.061	1.00 23.18	AAAA
				A 107	40.011	32.032	52.144	1.00 21.24	AAAA
ATOM	847	N			40.209	30.732		1.00 20.60	AAAA
ATOM	848	CA		A 107		29.571		1.00 19.82	AAAA
ATOM	849	CB		A 107	40.170			1.00 18.56	AAAA
ATOM	850	CG1		A 107	38.903			1.00 18.58	AAAA
ATOM	851	CG2		A 107	40.360	28.242			
ATOM	852	C	THR	A 107	41.516				AAAA
ATOM	853	0		A 107	41.537				AAAA
ATOM	854	N		A 108	42.601		53.003	1.00 20.14	AAAA
		CA		A 108	43.878			1.00 18.20	AAAA
ATOM	855			A 108	43.739				AAAA
ATOM .	956				44.335				AAAA
ATOM	857			A 108					AAAA
ATOM	858	N	SER	A 109	42.909	32.969	24.727	1.00 20.00	

ATOM	859	CA	SER	Δ	109		42.683	33.805	56.098	1 00	19.67	AAAA
ATOM	860	CB	SER	A	109		41.899	35.058	55.707	1.00	20.27	AAAA
ATOM	861	OG	SER	Α	109		42.618	35.803	54.746	1 00	21.80	AAAA
ATOM	862	С			109		41.955	33.066	57.219		19.61	AAAA
ATOM	863	0	SER	Α	109		42.078	33.426	58.388	1.00	18.40	AAAA
	864	N					41.186	32.042	56.866		19.88	
ATOM -					110							AAAA
MOTA	865	CA	THR	Α	110		40.493	31.288	57.891	1.00	20.51	AAAA
	866	CB			110		39.365	30.438	57.304	1 00	20.62	ÀAAA
MOTA												
ATOM	867	OG1	THR	Α	110		38.236	31.284	57.050	1.00	20.80	AAAA
MOTA	868	CG2	THR	Δ	110		38.974	29.313	58.262	1.00	20 53	AAAA
ATOM	869	C	THR	Α	110		41.504	30.420	58.601	1.00	20.36	AAAA
ATOM .	870	0	THR	Α	.110		41.455	30.268	59.822	1.00	20.78	AAAA
						-	42.431		57.832		20.85	
ATOM	871	N			111			29.855				AAAA
ATOM	872	CA	VAL	Α	111		43.480	29.053	58.423	1.00	21.03	AAAA
ATOM	873	CB	WAT.	Δ	111		44.318	28.323	57.345	1 00	21.05	AAAA
ATOM	874		VAL				45.537	27.644	57.983	1.00	19.91	-AAAA
MOTA	875	CG2	VAL	Α	111		43.460	27.281	56.648	1.00	18.39	AAAA
									59.232			
ATOM	876	С			111		44.374	30.005			21.84	AAAA
ATOM	877	0	VAL	Α	111		44.825	29.671	60.331	1.00	22.73	AAAA
MOTA	878	N	CLN	a	112		44.612	31.204	58.712	1 00	21.62	AAAA
ATOM	87 9	CA	GLN	Α	112		45.449	32.133	59.452	1.00	21.89	AAAA
ATOM	880	CB	GLN	А	112		45.630	33.450	58.690	1.00	22.50	AAAA
MOTA	881	CG			112		46.288	33.283	57.335		23.68	AAAA
ATOM	882	CD	GLN	Α	112		46.414	34.578	56.569	1.00	23.18	AAAA
	883		GLN	3	112		47.389	35.310	56.722	1 00	23.86	
MOTA												AAAA
ATOM	884	NE2	GLN	A	112		45.413	34.879	55.752	1.00	21.90	AAAA
ATCM	885	С	GLN.	Α	112		44.766	32.383	60.774	1.00	21.84	AAAA
ATOM	886	0			112		45.389	32.316	61.835		22.47	AAAA
ATOM	887	N	ALA	Α	113		43.468	32.651	60.700	1.00	21.34	AAAA
MOTA	888	CA			113		42.682	32.934	61.884	1 00	20.84	AAAA
ATOM	889	CB	ALA	А	113		41.244	33.172	61.504	1.00	18.52	AAAA
ATOM	890	С	ALA	Α	113		42.795	31.782	62.865	1.00	21.75	AAAA
	891	0			113		42.880	31.985	64.084		22.24	
MOTA												AAAA
ATOM	892	N	ILE	Α	114		42.797	30.569	62.329	1.00	22.54	AAAA
ATOM	893	CA	TLE	Δ	114		42.891	29.393	63.160	1 00	23.16	AAAA
MOTA	894	CB	TLE	A	114		42.557	28.146	62.352	1.00	23.33	AAAA
ATOM	895	CG2	ILE	Α	114		42.939	26.912	63.106	1.00	23.80	AAAA
	896		ILE				41.058	28.130	62.047		23.48	AAAA
MOTA												
ATOM	897	CD1	ILE	Α	114		40.610	26.951	61.204	1.00	22.08	AAAA
MOTA	898	С	TIF	Α	114		44.268	29.270	63.792	1.00	24.33	AAAA
ATCM	899	0			114		44.373	29.013	64.990		25.30	AAAA
ATCM	900	N	GLU	Α	115		45.319	29.490	63.002	1.00	24.96	AAAA
MOTA	901	CA	CLII	Δ	115		46.699	29.395	63.503	1 00	26.61	AAAA
ATCM	902	CB	GLU	A	115		47.708	29.753	62.406	1.00	24.75	AAAA
MOTA	903	CG	GLU	Α	115		47.444	29.033	61.103	1.00	25.80	AAAA
	904	CD			115		48.471	29.323	60.030	1 00	26.07	AAAA
AŢOM												
ATOM	905	OEl	GLU	Α	115		48.911	30.484	59.940	1.00	27.15	AAAA
ATOM	906		GLU				48.819	28.402	59.260	1.00	25.45	AAAA
	907				115		46.877	30.340	64.680		27.89	AAAA
ATCM		С										
ATOM	908	0	GLU	Α	115		47.480	29.975	65.695	1.00	28.04	AAAA
MOTA	909	N			116		46.337	31.552	.64.531	1 00	29.15	AAAA
ATOM	910	CA	GLU	A	116		46.408	32.579	65.563		29.42	AAAA
ATOM	911	CB	GLU	A	116		45.751	33.871	65.082	1.00	28.26	AAAA
					116		46.482	34.529	63.945		28.93	
ATOM	912	CG										AAAA
MOTA	913	CD	GLU	Α	116		47.902	34.937	64.318	1.00	28.32	AAAA
ATCM	914	OFI	GLU				48.081	35.878	65.123	1.00	27.68	AAAA
atom	91,5	UEZ	GLU			_	48.838	34.297	63.810		27.38	AAAA
ATOM	916	С	GLU	A	116		45.737	32.126	66.845	1.00	29.77	AAAA
					116		46.338	32.196	67.920		30.29	AAAA
ATOM	917	0					-					
ATCM	918	13	PHE	Α	117		44.492	31.665	66.727	1.00	29.64	AAAA
ATOM	919	CA			117		43.741	31.204	67.887	1.00	29.33	AAAA
ATOM	920	CB			117		42.425	30.552	67.480		28.89	AAAA
ATOM	921	CG	PHE	A	117		41.604	30.087	68.651	1.00	28.93	AAAA
	922		PHE				41.010	31.010	69.510		28.42	AAAA
ATOM												
ATCM	923		PHE				41.441	28.723	68.910		29.06	AAAA
ATOM	924	CE1	PHE	Α	117		40.261	30.588	70.610	1.00	28.68	AAAA
	-		-						-			

ATOM	925	CE2	PHE A	117	40.695	28.284	70.009	1.00 29.16	AAAA
MOTA	926	CZ	PHE A		40.103	29.227	70.862	1.00 29.03	AAAA
ATOM	927	C	PHE A	117	44.545	30.195	68.671	1.00 29.22	አ አአአ
ATOM	928	0	PHE A	117	44.677	30.315	69.884	1.00 30.29	AAAA
ATOM	929	N	LEU A	118	45.066	29.195	67.965	1.00 29.24	AAAA
ATOM	930		LEU A		45.864	28.145	68.576	1.00 29.50	AAAA
MOTA	931		LEU A		46.182	27.047	67.550	1.00 28.57	AAAA
ATOM	932	CG	LEU A		44.962	26.296	66.989	1.00 28.16	AAAA
MOTA	933		LEU A		45.421	25.090	66.191	1.00 25.58 1.00 27.64	ААА <i>А</i> АААА
MOTA	934		LEU A		44.053	25.846	68.128 69.227	1.00 27.64	AAAA
ATOM	935	С	LEU A		47.150 47.727	28.649 27.954	70.056	1.00 30.14	AAAA
ATOM	936 937	O N	LYS A		47.602	29.845	68.847	1.00 31.36	AAAA '
ATOM	938	CA	LYS A		48.798	30.451	69.448	1.00 32.52	AAAA
ATOM ATOM	939	CB	LYS A		49.396	31.539	68.559	1.00 32.38	AAAA
MOTA	940	CG	LYS A		49.882	31.108	67.199	1.00 33.03	AAAA
ATOM	941	CD	LYS A		50.371	32.321	66.411	1.00 32.74	AAAA
ATOM	942	CE	LYS A		50.681	31.939	64.972	1.00 33.94	AAAA
ATOM	943	NZ	LYS A	119	51.125	33.099	64.152	1.00 34.93	AAAA
MOTA	944	С	LYS A	119	48.385	31.143	70.744	1.00 33.74	AAAA
ATOM	945	0	LYS A		49.218	31.748	71.413	1.00 34.85	AAAA
ATOM	946	N	GLY A		47.096	31.079	71.073	1.00 33.68	AAAA
ATOM	947	CA	GLY A		46.600	31.736	72.263	1.00 33.69	AAAA
ATOM	948	С	GLY A		45.987	33.110	71.988	1.00 34.11	AAAA
ATOM	949	0	GLY A		45.588	33.802	72.932 70.717	1.00 33.65 1.00 33.58	AAAA AAAA
MOTA	950	N	ASN A		45.904 45.326	33.513 34.820	70.368	1.00 33.35	AAAA
MOTA	951 952	CA CB	ASN A		46.194	35.537	69.341	1.00 33.18	AAAA
ATOM ATOM	953	CG	ASN A		47.570	35.828	69.859	1.00 34.31	AAAA
MOTA	954		ASN A		48.333	34.921	70.154		AAAA
ATOM	955		ASN A		47.897	37.096	69.975	1.00 34.18	AAAA
ATOM	956	C	ASN A		43.888	34.805	69.839	1.00 32.85	AAAA
ATOM	957	0	ASN A	121	43.304	33.751	69.599	1.00 32.78	AAAA
ATOM	958	N	VAL A	122	43.338	36.003	69.655	1.00 32.47	AAAA
MOTA	959	CA	VAL A	122	41.980	36.200	69.148	1.00 30.89	AAAA
MOTA	960	CB	VAL A		41.182	37.145	70.070	1.00 31.05	AAAA
MOTA	961		VAL A		39.831	37.423	69.489 71.440	1.00 30.95 1.00 31.19	AAAA AAAA
ATOM	952		VAL A		41.038 42.056	36.516 36.805	67.750	1.00 30.19	AAAA
MOTA	953 964	C O	VAL A		42.694	37.840	67.535	1.00 31.28	AAAA
ATOM . ATOM	965	N	ALA A		41.405	36.147	66.800	1.00 28.62	AAAA
ATOM	966	CA	ALA A		41.415	36.589	65.421	1.00 26.49	AAAA
ATOM	967	CB	ALA A		42.323	35.708	64.599	1.00 26.51	AAAA
MOTA	968	С	ALA A		40.038	36.570	64.836	1.00 25.59	AAAA
MOTA	969	0	ALA A	123	39.173	35.814	65.252	1.00 26.27	AAAA
ATOM	970	N	PHE A	124	39.848	37.421	62.847	1.00 25.44	AAAA
ATOM	971	CA	PHE A		38.590	37.534	62 . 156	1.00 23.87	AAAA
ATOM	972	CB	PHE A		37.832	38.779	63.646	1.00 23.58	AAAA AAAA
ATOM	973	CG	PHE A		36.591	39.119 38.140	62.841 62.495	1.00 23.71 1.00 23.44	AAAA
ATOM	974		PHE A		35.668 36.311	40.449	62.498	1.00 23.75	AAAA
ATOM	975 976		PHE A		34.479	38.483	61.823	1.00 23.73	AAAA
ATOM ATOM	977		PHE A		35.131	40.796	61.833	1.00 21.71	AAAA
ATOM	. 978	CZ	PHE A		34.217	39.815	61.497	1.00 22.35	AAAA
ATOM	979	C	PHE A		38.951	37.673	61.700	1.00 23.26	AAAA
ATCM	980	Ö	PHE A		39.720	38.555	61.323	1.00 22.29	AAAA
ATOM	981	Ŋ	ASN A		38.427	36.759	60.897	1.00 23.24	AAAA
ATOM	382	CA	ASN A	125	38.622	36.785	59:457	1.00 21.08	AAAA
ATOM	983	CB	ASN A		39.181	35.470	58.951	1.00 19.90	AAAA
ATOM	984	CG	ASN A		39.098	35.360	57.454	1.00 20.64	AAAA
ATOM	385		ASN A		39.389	36.317	56.748	1.00 21.63	AAAA AAAA
ATOM	986		ASN A		38.721	34.190	56.956 58.813	1.00 19.93 1.00 20.19	AAAA
ATOM	987	C	ASN A		37.269	37.059	58.579	1.00 20.19	AAAA
ATOM	988	0	ASN A		36.469	36.148 38.340	58.543	1.00 19.21	AAAA
ATOM	989	N.	PRO A		36.991 37.893	39.460	58.858	1.00 19.22	AAAA
ATOM	390	CD	PRO A	120	31.033	79.400	20.000	4 27.22	•

Figure 19-16

MOTA	991	CA	PRO .	A 1	126	35.766	38.849	57.932	1.00	19.52	AAAA
						36.005	40.359	57.941		18.55	AAAA
MOTA	992	CB	PRO .							-	
MOTA	993	CG	PRO .	A]	126	37.511	40.465	57.799		17.97	AAAA
MOTA	994	С	PRO .	A 1	126	35.456	38.313	56.526	1.00	19.41	AAAA
ATOM	995	0	PRO .			34.303	38.349	56.080	1.00	19.68	AAAA
								55.835		18.17	AAAA
MOTA	996	N	ALA .			36.47?	37.814				
ATOM	997	CA	ALA .	A 3	127	36.283	37.314	54.481	1.00	17.66	KAAA
ATOM	998	CB	ALA .	A 1	127	37.547	37.520	53.658	1.00	17.08	AAAA
	_					35.875	35.857	54.443		17.46	AAAA
MOTA	999	С	ALA .								
MOTA	1000	0	ALA .	A]	127	35.438	35.359	53.409		18.92	AAAA
MOTA	1001	N	GLY .	A 1	128	36.019	35.180	55.570	1.00	15.94	AAAA
ATOM	1002	CA	GLY	Δ 1	128	35.685	33.780	55.642	1.00	15.45	AAAA
						34.226	33.593	55.955		16.08	AAAA
MOTA	1003	C	GLY								
ATOM	1004	0	GLY	A :	128	33.485	34.557	55.997		15.43	AAAA
ATOM	1005	N	GLY	A :	129	33.821	32.353	56.198	1.00	16.77	AAAA
ATOM	1006	CA	GLY			32.426	32.082	56.462	1.00	17.82	AAAA
							31.822	55.169		18.64	AAAA
MOTA	1007	С	GLY			31.669					
MOTA	1008	0	GLY	А:	129	30.469	32.051	55.108	1.00	18.48	AAAA
MOTA	1009	N	MET	A :	130	32.380	31.368	54.137	1.00	20.45	AAAA
MOTA	1010	CA	MET			31.790	31.029	52.826	1 00	21.60	AAAA
								51.744		22.02	AAAA
MOTA	1011	CB	MET		-	32.866	31.117				
MOTA	1012	CG	MET	Α:	130	33.551	32.472	51.698	1.00	21.75	AAAA
ATOM	1013	SD	MET	A :	130	34.971	32.567	50.599	1.00	24.75	AAAA
	1014	CE	MET			34.268	32.137	49.048	1 00	24.40	AAAA
ATOM										22.08	
ATOM	1015	C.	MET			31.328	29.587	53.002	_		AAAA
MOTA	1016	0	MET	Α :	130	31.970	28.641	52.546		22.98	AAAA
ATOM	1017	N	HIS	A :	131	30.184	29.452	53.659	1.00	22.25	AAAA
ATCM	1018	CA	HIS			29.618	28.171	54.062	1.00	.20.49	AAAA
							28.421	55.342		20.00	AAAA
MOTA	1019	CB	HIS			28.832					
ATOM	1020	CG	HIS	A :	131	27.679	29.360	55.161	1.00	17.93	AAAA
ATOM	1021	CD2	HIS	A :	131	27.091	29.846	54.043	1.00	17.88	AAAA
ATOM	1022		HIS			26.952	29.854	56.219	1.00	19.33	AAAA
						25.968	30.607	55.758		16.99	AAAA
ATOM	1023		HIS								
MOTA	1024	NE2	HIS	A :	131	26.031	30.617	54.441		17.43	AAAA
ATOM	1025	С	HIS	A :	131	28.763	27.332	53.141	1.00	19.97	AAAA
ATOM	1026	0	HIS	Α .	131	28.330	26.262	53.541	1.00	19.61	AAAA
						28.518	27.796	51.923		20.11	AAAA
ATOM	1027	N	HIS								
MOTA	1028	CA	HIS	Α.	132	2 7 .673	27.058	50.994		17.76	AAAA
ATOM	1029	CB	HIS	A :	132	26.879	28.044	50.127	1.00	16.76	AAAA
ATOM	1030	CG	HIS	A	132	25.824	28.815	50.862	1.00	15.35	AAAA
	1031		HIS			25.567	30.146	50.920		14.15	AAAA
ATOM											AAAA
MOTA	1032		HIS			24.804	28.200	51.557		16.15	
MOTA	1033	CE1	HIS	A :	132	23.966	29.119	52.005		14.13	AAAA
ATOM	1034	NE2	HIS	A	132	24.405	30.307	51.632	1.00	14.65	AAAA
ATOM	1035	С	HIS			28.355	26.051	50.065	1.00	17.99	AAAA
								49.684		18.54	AAAA
MOTA	1.36	0	HIS			27.742	25.053				
ATOM	1.237	N	ALA	A :	133	29.604	26.305	49.690		17.82	AAAA
ATOM	1,38	CA	ALA	Α.	133	30.300	25.441	48.742	1.00	18.38	AAAA
ATOM	1039	CB	ALA			31.684	25.961	48.507	1.00	17.53	AAAA
			ALA			30.366	23.970	49.130		20.92	AAAA
MOTA	1040	С									
ATOM	1041	0	ALA			30.578	23.633	50.298 ⁻		21.79	AAAA
ATOM	1042	N	PHE	A :	134	30.184	23.086	48.152	1.00	20.58	AAAA
ATOM	1043	CA	PHE			30.258	21.663	48.455	1.00	21.38	AAAA
							20.860	47.731		19.41	AAAA
MOTA	1044	CB	PHE			29.168					
ATOM	1045	CG	PHE			27.772	21.229	48.126		18.32	AAAA
MOTA	1046	CD1	PHE	A	134	27.027	22.099	47.357	1.00	19.22	AAAA
ATOM	1047		PHE			27.193	20.701	49.271	1.00	19.14	AAAA
								47.726		18.56	AAAA
MOTA	1048		PHE			25.714	22.438				
ATOM	1049	CE2				25.889	21.036	49.644		17.72	AAAA
MOTA	1050	CZ	PHE			25.158	21.903	48.866	1.00	18.01	AAAA
		c	PHE			31.625	21.124	48.081		22.9Ô	AAAA
MOTA	1051							47.544		23.37	AAAA
ATOM	1052	0	PHE			32.459	21.833				
ATOM	1053	N	LYS	A	135	31.842	19.861	48.390		24.63	AAAA
ATOM	1054	CA	LYS	Α.	135	33.095	19.195	48.122	1.00	27.16	AAAA
	1055	CB	LYS			32.926	17.714	48.480	1.00	28.53	AAAA
MOTA								48.292		31.01	AAAA
ATOM	1056	CG	LYS	Ä	132	34.133	16.843	40.474	1.00	21.01	AAAA
											•

	1057	CD	TVC	A 135	2.3	.879	15.472	48.910	1.00 32.75	ሕ <mark>አ</mark> ሕ
MOTA	1057	CD						50.457	1.00 33.96	AAAA
MOTA	1058	CE	LYS .	A 135		.961	15.495			
MOTA	1059	NZ	LYS .	A 135	35	.371	15.664	50.976	1.00 33.04	AAAA
	1060	С		A 135	33	.577	19.390	46.673	1.00 27.37	AAAA
MOTA								46.437	1.00 27.35	AAAA
MOTA	1061	0		A 135		.769	19.596			
ATOM	1062	N	SER .	A 136	32	. 658	19.354	45.714	1.00 27.32	AAAA
				A 136		.028	19.527	44.313	1.00 28.31	AAAA
MOTA	1063	CA .							1.00 28.56	AAAA
MOTA	1064	CB	SER .	A 136	33	.093	18.162	43.626		
	1065	OG	CED	A 136	7.7	.822	17.242	44.417	1.00 29.28	AAAA
MOTA							20.395	43.599	1.00 28.91	AAAA
ATOM	1066	С	SER	A 136		.993				
ATOM	1067	0	SER	A 136	. 31	568	20.080	42.486	1.00 28.78	AAAA
				A 137	3 1	595	21.502	44.212	1.00 29.08	AAAA.
MOTA	1068	N						43.576	1.00 29.66	AAAA
ATOM	1069	CA	ARG	A 137).574	22.311			
ATOM	1070	CB	ARG	A 137	29	.259	21.528	43.657	1.00 31.65	AAAA
	-			A 137		7.989	22.273	43.355	1.00 33.89	AAAA
MOTA	1071	CG							1.00 35.93	AAAA
MOTA	1072	CD	ARG:	A 137		5.862	21.267	43.373		
ATOM	1073	NE	ARG	A 137	26	5.961	20.366	42.228	1.00 36.31	KAAA
				A 137		5.505	20.660	41.015	1.00 35.99	AAAA
ATOM	1074	CZ						40.798	1.00 34.63	AAAA
MOTA	1075			A 137		5.915	21.834			
ATOM	1076	NH2	ARG	A 137	26	5.650	19.786	40.025	1.00 35.35	AAAA
			3.00	A 137		0.402	23.723	44.116	1.00 28.53	AAAA
ATOM	1077	C							1.00 28.51	AAAA
ATOM	1078	0	ARG	A 137	. 30	0.418	23.946	45.324		
	1079	N	21.2	A 138	30	0.247	24.673	43.202	1.00 27.53	AAAA
ATOM						0.039	26.063	43.581	1.00 27.64	AAAA
MOTA	1080	CA		A 136					1.00 27.87	AAAA
MOTA	1081	CB	ALA	A 138	3 (0.236	26.984	42.381		
ATOM	1082	С	A.1.A	A 138	28	B.601	26.130	44.079	1.00 27.27	AAAA
						7.769	25.321	43.671	1.00 28.30	AAAA
MOTA	1083	0		A 138						AAAA
ATOM	1084	N	ASN	A 139	23	B.292	27.080	44.951	1.00 26.16	•
	1085	CA	ASN	A 139	2	6.945	27.134	45.480	1.00 25.39	AAAA
ATOM						6.673	25.847	46.282	1.00 24.58	AAAA
ATOM	1086	CB		A 139					1.00 25.37	AAAA
ATOM	1087	CG	ASN	A 139		5.343	25.872	47.017		
ATOM	1088	ODI	ASN	A 139	2	4.272	26.017	46.413	1.00 24.20	AAAA
		-				5.408	25.720	48.338	1.00 24.91	AAAA
MOTA	1089			A 139					1.00 24.90	AAAA
ATOM	1090	C	ASN	A 139		6.683	28.358	46.341		
ATOM	1091	0	ASN	A 139	2	7.346	28.570	47.348	1.00 24.98	AAAA
				A 140	2	5.702	29.145	45.916	1.00 24.46	AAAA
MOTA	1092	11						46.625	1.00 22.96	AAAA
ATOM	1093	CA	GLY	A 140		5.294	30.336			
ATOM	1094	С	GLY	A 140	2	6.383	31.358	46.755	1.00 22.24	AAAA
					_	6.663	31.817	47.867	1.00 23.09	AAAA
ATOM	1095	0		A 140				45.625	1.00 20.60	AAAA
MOTA	1096	N	PHE	A 141		6.992	31.711			
ATOM	1097	CA	PHE	A 141	2	8.075	32.700	45.572	1.00 19.43	AAAA
	1098			A 141		7.758	33.920	46.430	1.00 19.86	· AAAA
ATOM		CB			_		34.577	46.114	1.00 21.18	AAAA
ATOM	1099	CG	PHE	A 141		6.453				
ATOM	1100	CD1	PHE	A 141	2	5.974	35.592	46.934	1.00 20.49	AAAA
	1101			A 141		5.723	34.218	44.985	1.00 21.42	AAAA
MOTA	1101							46 638	1.00 22.45	AAAA
MOTA	1102	CEI	. PHE	A 141		4.800				AAAA
ATOM	1103	CE2	PHE	A 141	2	4.540		44.672	1.00 :1.76	
	1104	CZ		A 141		4.072	35.881	45.499	1.00 `3.05	AAAA
atom	_					9.396		46.069	1.00 18.68	AAAA
ATOM	1105	С		A 141	_				1.00 19.19	AAAA
ATOM	1106	Ò	PHE	A 141		0.438	32.784	45.944		
	1107	N		A 142	_	9.367	30.930	46.635	1.00 16.93	AAAA
ATOM					_				1.00 16.80	AAAA
MOTA	1108	CA		A 142		0.594			1.00 16.51	AAAA
MOTA	1109	CB	CYS	A 142	3	0.323	29.689			
	1110	SG		A 142		9.524	30.826	49.617	1.00 15.01	AAAA
MOTA								46.221	1.00 16.45	AAAA
MOTA	1111	C		A 142		1.227				AAAA
ATOM	1112	0	CYS	A 142	3	0.533				
				A 143		2.558		46.190	1.00 18.39	AAAA
ATOM	1113	Ŋ			_					AAAA
MOTA	1114	CÀ		A 143		3.340			1.00 10.00	AAAA
ATOM	1115	CB	TYR	A 143	. 3	4.298	29.154			
					_	3.664		43.571	1.00 19.55	AAAA
ATOM	1116	CG		A 143						AAAA
ATOM	1117	CD:	l TYR	A 143		3.480				AAAA
ATOM	1118	CE	1 TYR	A 143	3	2.856	32.473			
				A 143		3.212		42.292	1.00 20.14	AAAA
MOTA	1119		LIIK	V 74						AAAA
ATOM	1120	CE:		A 143		2.588				AAAA
ATOM	1121	CZ		A 14:		32.414		_	1.00 20.90	
				A 14		1.787		41.228	1.00 23.36	AAAA
ATOM	1122	OH	IIK	. w 14.	, -			•		•

ATOM	1123	С	TYR	A 143	34.162	27.490	46.283	1.00 19.06	AAAA
ATOM	1124	Ō		A 143		25.289	46.032	1.00 18.40	AAAA
MOTA	1125	N		A 144		28.087	47.344	1.00 19.15	AAAA
ATOM	1126	CA	ILE	A 144		27.350	48.315	1.00 19.97	AAAA
MOTA	1127	CB	ILE	A 144	36.952	27.861	48.355	1.00 19.74	AAAA
ATOM	1128	CG2		A 144		27.088	49.410	1.00 18.03	AAAA
ATOM	1129			A 144		27.671	46.965		
								1.00 20.12	, AAAA
MOTA	1130	CDI		A 144		28.072	46.846	1.00 21.05	`AAAA
ATOM	1131	С	ILE	A 144	34.833	27.532	49.665	1.00 20.22	AAAA
ATOM	1132	0		A 144		28.626	49.981	1.00 19.94	AAAA
ATOM	1133	N		A 145		26.451	50.440	1.00 20.57	
									AAAA
ATOM	1134	CA		A 145		26.448	51.770	1.00 20.39	AAAA
ATOM	1135	CB		A 145		25.114	51.990	1.00 19.39	AAAA
ATOM	1136	CG	ASN	A 145	32.505	25.143	53.171	1.00 19.31	AAAA
ATOM	1137	OD1	ASN	A 145		25.583	54.263	1.00 21.26	AAAA
ATOM	1138			A 145		24.667	52.960		
								1.00 17.08	- AAAA
ATOM	1139	С		A 145		26.621	52.856	1.00 20.17	AAAA
MOTA	1140	0	ASN	A 145	35.690	25.622	53.421	1.00 19.75	AAAA
ATOM	1141	N	ASN	A 146	35.644	27.862	53.148	1.00 20.06	AAAA
ATOM	1142	CA	ASN	A 146	36.671	28.075	54.166	1.00 20.98	AAAA
ATOM	1143	CB		A 146		29.573	54.333	1.00 21.78	
									AAAA
MOTA	1144	CG		A 146		30.411	54.882	1.00 22.78	AAAA
MOTA	1145	OD1	ASN	A 146	35.651	30.465	56.091	1.00 22.83	AAAA
ATOM	1146	ND2	ASN	A 146	35.144	31.078	53.983	1.00 23.70	AAAA
ATOM	1147	С	ASN	A 146	36.307	27.413	55.496	1.00 21.18	AAAA
MOTA	1148	ō		A 146		26.823	56.139	1.00 21.48	AAAA
MOTA	1149	N		A 147		27.476	55.922	1.00 20.88	AAAA
ATOM	1150	CD		A 147		28.120	55.358	1.00 21.85	AAAA
ATOM	1151	CA	PRO	A 147	34.674	26.831	57.183	1.00 21.42	AAAA
ATOM	1152	CB	PRO	A 147	33.176	27.073	57.261	1.00 21.00	AAAA
ATOM	1153	CG		A 147		28.408	56.605	1.00 20.47	AAAA
	1154								
ATOM		C		A 147		25.334	57.174	1.00 22.79	AAAA
ATOM	1155	0	PRO	A 147		24.833	58.099	1.00 25.69	AAAA
ATOM	1156	N	ALA	A 148	34.603	24:616	56.136	1.00 22.34	AAAA
ATOM	1157	CA	ALA	A 148	34.889	23.193	56.070	1.00 22.23	AAAA
ATOM	1158	CB	AT.A	A 148	34.260	22.561	54.825	1.00 22.87	AAAA
ATOM	1159	c		A 148		22.998	56.054	1.00 22.33	AAAA
ATOM	1160	0		A 148		22.249	56.861	1.00 23.42	AAAA
ATOM	1161	N	VAL	A 149		23.661	55.122	1.00 22.50	AAAA
MOTA	1162	CA	VAL	A 149	38.505	23.569	55.018	1.00 21.29	AAAA
ATOM	1163	CB	VAL	A 149	39.066	24.581	54.002	1.00 20.46	AAAA
ATOM	1164	CG1	VAL.	A 149		24.607	54.085	1.00 19.36	AAAA
ATOM	1165			A 149		24.229	52.593	1.00 20.03	AAAA
MOTA	1166	С		A 149		23.848	56.367	1.00 21.48	AAAA
ATOM	1167	0		A 149		23.197	56.735	1.00 22.11	AAAA
MOTA	1168	N	GL"	A 150	38.628	24.826	57.088	1.00 21.19	AAAA
ATOM	1169	CA	GL.	A 150	39.171	25.176	58.386	1.00 21.70	AAAA
ATOM	1170	C		A 150		24.043	59.368	1.00 22.31	AAAA
	1171	ō		A 150		23.597	60.026	1.00 22.51	AAAA
ATOM									
ATOM	1172	N		A 151	37.736	23.566	59.453	1.00 22.86	AAAA
MOTA	1173	CA	ILE	A 151	37.388	22.474	60.346	1.00 22.26	AAAA
ATOM	1174	CB	ILE	A 151	35.894	22.124	60.191	. 1.00 21.51	AAAA
MOTA	1175	CG2		A 151	35.542	20.899	61.019	1.00 21.36	AAAA
	1176			A 151	35.051	23.329	60.627	1.00 20.39	AAAA
MOTA									
MOTA	1177			A 151	33.576	23.199	60.361	1.00 16.88	AAAA
MOTA	1178	С	ILE	A 151	38.265	21.243	60.096	1.00 23.29	AAAA
ATOM	1179	0	ILE	A 151	38.786	20.660	61.038	1.00 23.88	AAAA
ATOM	1180	N		A 152	38.435	20.853	58.836	1.00 24.13	AAAA
	1181	CA		A 152	39.267	19.697	58.517	1.00 25.01	AAAA
MOTA									
ATOM	1182	CB		A 152	39.242	19.404	57.010	1.00 25.07	AAAA
ATOM	1183	CG		A 152	37.910	18.886	56.526	1.00 24.56	AAAA
ATOM	1184	CD	GLU	A 152	37.500	17.570	57.198	1.00 25.00	AAAA
ATOM	1185			A 152	36.345	17.158	57.011	1.00 26.40	AAAA
ATOM	1186			A 152	38.315	16.935	57.897	1.00 25.00	AAAA
				A 152			58.965		
ATOM	1187	C				19.957		1.00 26.06	AAAA
ATOM	1188	0	GLU	A 152	41.425	19.035	59.331	1.00 26.40	, AAAA
•		•							•

MOTA	1189	N	TYR A		41.085	21.225	58.925	1.00 27.30	AAAA
ATOM	1190	CA	TYR A	153	42.422	21.632	59.334	1.00 27.63	AAAA
ATOM	1191	CB	TYR A		42.532	23.153	59.268	1.00 26.99	AAAA
	1192	CG	TYR A		43.856	23.719	59.710	1.00 27.03	AAAA
ATOM	1192		TYR A		44.942	23.790	58.837	1.00 27.78	AAAA
MOTA					46.165	24.356	59.250	1.00 28.40	AAAA
MOTA	1194		TYR A				61.007	1.00 27.52	AAAA
MOTA	1195	CD2	TYR A		44.017	24.215			AAAA
ATOM	1196	CE2	TYR A	A 153	45.216	24.774	61.425	1.00 27.66	
ATOM	1197	CZ	TYR A	A 153	46.284	24.845	60.547	1.00 28.15	AAAA
ATOM	1198	OH	TYR A	A 153	47.457	25.407	60.974	1.00 28.83	AAAA
	1199	C		A 153	42.618	21.172	60.769	1.00 27.82	AAAA
MOTA				A 153	43.613	20.552	61.110	1.00 27.15	AAAA
MOTA	1200	0			41.636	21.487	61.604	1.00 29.25	AAAA '
MOTA	1201	N		A 154		21.138	63.014	1.00 29.35	AAAA
MOTA	1202	CA		A 154	41.665			1.00 30.25	AAAA
MOTA	1203	CB		A 154	40.507	21.829	63.715		
MOTA	1204	CG	LEU A	A 154	40.685	23.346	63.792	1.00 31.10	AAAA
ATOM	1205	CD1	LEU A	A 154	39.348	24.020	64.092	1.00 31.24	AAAA
ATOM	1206	CD2	LEU .	A 154	41.747	23.669	64.852	1.00 29.84	AAAA
	1207	C		A 154	41.625	19.639	63.263	1.00 29.73	AAAA
ATOM		Ö		A 154	42.313	19.151	64.150	1.00 30.51	AAAA
MOTA	1208			A 155	40.832	18.903	62.489	1.00 28.95	AAAA
MOTA	1209	N			40.771	17.459	62.671	1.00 28.94	AAAA
MOTA	1210	CA		A 155	-		61.723	1.00 28.64	AAAA
ATOM	1211	CB		A 155	39.742	16.820		1.00 27.82	AAAA
ATOM	1212	CG		A 155	38.312	17.312	61.952		
ATOM	1213	CD	ARG .	A 155	37.319	16.751	60.955	1.00 27.19	AAAA
ATOM	1214	NE	ARG .	A 155	36.804	15.444	61.338	1.00 28.86	AAAA
ATOM	1215	CZ	ARG	A 155	35.939	14.742	60.612	1.00 28.93	AAAA
	1216			A 155	35.500	15.227	59.459	1.00 29.47	AAAA
ATOM	1217			A 155	35.486	13.574	61.053	1.00 28.76	AAAA
MOTA				A 155	42.158	16.853	62.438	1.00 30.20	AAAA
MOTA	1218	C			42.572	15.949	63.164	1.00 30.74	AAAA
MOTA	1219	0		A 155			61.447	1.00 30.32	AAAA
MOTA	1220	N		A 156	42.890	17.362		1.00 30.32	AAAA
ATOM	1221	CA		A 156	44.224	16.838	61.173		AAAA
ATOM	1222	CB	LYS	A 156	44.771	17.373	59.847	1.00 30.26	
ATOM	1223	CG	LYS	A 156	46.168	16.869	59.525	1.00 30.16	AAAA
ATOM	1224	CD	LYS	A 156	. 46.686	17.368	58.181	1.00 31.19	AAAA
ATOM	1225	CE	LYS	A 156	45.884	16.813	56.986	1.00 31.70	AAAA
	1226	NZ		A 156	45.963	15.324	56.824	1.00 31.20	AAAA
ATOM	1227	C		A 156	45.167	17.202	62.306	1.00 30.08	AAAA
ATOM				A 156	46.192	16.550	62.485	1.00 29.16	AAAA
MOTA	1228	0			44.816	18.252	63.053	1.00 30.08	AAAA.
ATOM	1229	N		A 157		18.691	64.196	1.00 31.03	AAAA
MOTA	1230	CA	LYS	A 157	45.608		64.452	1.00 31.81	AAAA
ATOM	1231	CB		A 157	45.446	20.201		1.00 32.12	AAAA
ATOM	1232	CG		A 157	46.067	21.134	63.419		AAAA
ATOM	1233	CD	LYS	A 157	47.580	21.041	63.348	1.00 31.34	
ATOM	1234	CE	LYS	A 157	48.080	21.941		1.00 32.66	AAAr
ATOM	1235	NZ	LYS	A 157	49.556	21.921	61.996	1.00 32.74	\AAA
ATOM	1236	C		A 157	45.196	17.923	65.458	1.00 31.73	· AAA
	1237	ō		A 157	45.652	18.230	66.558	1.00 31.93	AAAA
MOTA			CTV	A 158	44.312	16.942	65.299	1.00 32.41	AAAA
MOTA	1239	N	CLV	A 158	43.901	16.140		1.00 32.34	AAAA
MOTA	1239	CA				16.429	67.172	1.00 32.65	AAAA
MOTA	1240	C		A 158	42.604		67.980	1.00 32.85	AAAA
MOTA	1241	0		A 158	42.182	15.604		1.00 33.16	AAAA
ATOM	1242	N		A 159	41.960				AAAA
ATOM	1243	CA	PHE	A 159	40.712			1.00 34.16	
ATOM	1244	CB		A 159	40.220	19.281		1.00 34.81	AAAA
ATOM	1245	CG		A 159	41.134			1.00 34.01	AAAA
	1246			A 159	42.327		67.329	1.00 34.18	AAAA
MOTA		CD.	Due.	A 159	40.821			1.00 34.61	AAAA .
ATOM	1247	CD2	FIL	V 123	43.197			1.00 33.65	AAAA
MOTA	1248	CE	PHE	A 159				1.00 34.52	AAAA
ATOM	1249			A 159	41.689				AAAA
ATOM	1250	CZ		A 159	42.878				AAAA
ATOM	1251	С	PHE	A 159	39.645				AAAA
ATOM	1252	0		A 159	39.568				
ATOM	1253	N	LYS	A 160					AAAA
ATOM	1254	CA		A 160		15.415	67.936	1.00 33.11	AAAA
ATOM							•		•

MOTA	1255	СВ	LYS	Α	160		38.060	14.140	68.763	1.00 33.97	AAAA
ATOM	1256	CG	LYS		-		39.410	13.491	68.457	1.00 35.31	AAAA
							39.833		69.429	1.00 36.48	
ATOM	1257	CD	LYS					12.364			AAAA
ATOM	1258	CE	LYS	A	160		39.095	11.037	69.243	1.00 37.97	AAAA
MOTA	1259	NZ	LYS	Α	160		37.636	11.080	69.568	1.00 39.67	AAAA
ATOM	1260	С	LYS	A	160		36.385	15.941	68.210	1.00 31.68	AAAA
	1261	ō			160		35.405	15.290	67.887	1.00 31.51	AAAA
ATOM											
MOTA	1262	N	ARG				36.291	17.114	68.819	1.00 31.11	AAAA
MOTA	1263	CA	ARG	Α	161		35.003	17.719	69.114	1.00 30.92	AAAA
MOTA	1264	CB	ARG	Α	161		34.655	17.592	70.604	1.00 31.78	AAAA
ATOM	1265	CG	ARG				34.451	16.157	71.102	1.00 32.91	AAAA
			ARG				33.994	16.126	72.570	1.00 33.26	AAAA
MOTA	1266	CD									
MOTA	1267	NE	ARG				34.929	16.797	73.476	1.00 34.01	AAAA
ATOM	1268	cz	ARG	Α	161		36.183	16.404	73.698	1.00 34.88	AAAA
MOTA	1269	NHl	ARG	Α	161		36.675	15.334	73.081	1.00 34.89	AAAA
ATOM	1270	NH2	ARG	A	161		36.954	17.084	74.537	1.00 34.71	AAAA
	1271	C			161		35.061	19.185	68.714	1.00 30.28	AAAA
MOTA											
MOTA	1272	0	ARG				35.365	20.059	69.529	1.00 29.86	AAAA
MOTA	1273	N	ILE	Α	162		34.774	19.433	67.437	1.00 28.86	AAAA
ATOM	1274	CA	ILE	Α	162		34.788	20.774	66.862	1.00 26.41	AAAA
ATOM	1275	CB	ILE	А	162		35.443	20.762	65.464	1.00 26.87	AAAA
MOTA	1276		ILE				35.453	22.160	64.872	1.00 26.91	AAAA
			ILE				36.877	20.234	65.578	1.00 28.19	AAAA
MOTA	1277										
MOTA	1278		ILE				37.614	20.090	64.240	1.00 28.24	AAAA
ATOM	1279	С			162		33.369	21.283	66.731	1.00 24.08	AAAA
MOTA	1280	0	ILE	Α	162		32.485	20.572	66.267	1.00 24.40	AAAA
ATOM	1281	N	LEU	Α	163		33.153	22.519	67.153	1.00 22.25	AAAA
ATOM	1282	CA			163		31.838	23.126	67.074	1.00 20.48	AAAA
					163	•	31.408	23.671	68.440	1.00 20.97	AAAA
ATOM	1283	CB									
MOTA	1284	CG			163		30.099	24.477	68.486	1.00 20.50	AAAA
ATOM	1285		LEU				28.998	23.695	67.799	1.00 19.07	AAAA
ATOM	1286	CD2	LEU	Α	163		29.738	24.802	69.950	1.00 19.76	AAAA
ATOM	1287	С	LEU	Α	163		31.801	24.241	66.055	1.00 18.76	AAAA
ATOM	1288	0	LEU	A	163		32.756	24.986	65.894	1.00 18.41	AAAA
ATOM	1289	N			164		30.677	24.344	65.368	1.00 17.85	AAAA
ATOM	1290	CA			164		30.496	25.372	64.373	1.00 17.16	AAAA
		СВ					30.644	24.768	62.983	1.00 17.45	AAAA
MOTA	1291				164						
ATOM	1292	CG			164		30.484	25.783	61.900	1.00 17.70	AAAA
MOTA	1293	CD1					31.444	26.772	61.701	1.00 16.23	AAAA
ATOM	1294	CE1	TYR	Α	164		31.280	27.734	60.721	1.00 17.35	AAAA
ATOM	1295	CD2	TYR	Α	164		29.350	25.781	61.092	1.00 17.95	AAAA
ATOM	1296	CE2	TYR	Α	164		29.173	26.746	60.103	1.00 18.03	AAAA
ATOM	1297	CZ	TVR	A	164		30.138	27.717	59.919	1.00 17.30	AAAA
	1298	ОН			164		29.955	28.647	58.926	1.00 16.70	AAAA
MOTA							29.123		64.514	1.00 15.85	AAAA
ATOM	1299	С			164		_	26.016			
MOTA	1300	0			164		28.101	25.351	64.416	1.00 16.44	AAAA
ATOM	1301	N	ILE	Α	165		29.115	27.319	64.743	1.00 15.54	AAAA
MOTA	1302	· CA	ILE	Α	165 ·	•	27.878	28.088	64.897	1.00 15.71	AAAA
ATOM	1303	CB	ILE	Α	165		27.869	28.819	66.250	1.00 15.18	AAAA
ATOM	1304	CG2	ILE				26.621	29.685	66.374	1.00 13.94	AAAA
	1305		ILE				28.000	27.797	67.386	1.00 13.94	AAAA
ATOM							28.356	28.421	68.747	1.00 13.94	AAAA
MOTA	1306		ILE								
ATOM	1307	C			165		27.808	29.124	63.754	1.00 16.00	
ATOM	1308	0	ILE	Α	165		28.711	29.941	63.576	1.00 16.56	
ATOM	1309	N	ASP	Α	166		26.721	29.087	63.001	1.00 16.18	AAAA
MOTA	1310	CA	ASP	Α	166		26.524	29.962	61.865	1.00 16.67	AAAA
	1311	CB			166		26.240	29.066	60.651	1.00 18.05	
ATOM	1312	CG			166		26.238	29.809	59.329	1.00 19.21	
ATOM										1.00 19.21	
ATOM	1313		ASP				25.353	30.659	59.114		
MOTA	1314	OD2	ASP				27.131	29.521	58.495	1.00 19.19	
ATOM	1315	С			166		25.342	30.904	62.169	1.00 17.57	
ATOM	1316	0	ASP	Α	166		24.206	30.459	62:321	1.00 17.26	AAAA
ATOM	1317	N			167		25.605	32.202	62.274	1.00 16.67	
		CA			167		24.526	33.135	62.562	1.00 16.89	
MOTA	1318				167		24.923	34.116	63.663	1.00 17.27	
MOTA	1319	CB									
ATOM	1320	CG	ニヹび	A	167		25.499	33.529	64.954	1.00 18.37	MAAM

s movi	1321	CDI	LEU A	167	25.760	34.671	65.933	1.00 18.72	AAAA
MOTA	1322		LEU A		24.566	32.507	65.547	1.00 17.06	AAAA
MOTA	1323		LEU A		24.146	33.897	61.307	1.00 17.18	AAAA
ATOM	1324		LEU A		23.390	34.850	61.358	1.00 17.21	AAAA
MOTA			ASP A		24.683	33.457	60.178	1.00 17.83	AAAA
ATOM	1325		ASP A		24.382	34.067	58.904	1.00 17.84	AAAA
MOTA	1326		ASP A		25.178	33.397	57.807	1.00 20.42	AAAA
MOTA	1327		ASP A		25.140	34.162	56.529	1.00 21.41	AAAA
MOTA	1328		ASP A		22.915	33.783	58.660	1.00 18.35	AAAA
MOTA	1329		ASP A ASP A		22.419	32.722	59.032	1.00 19.62	AAAA
MOTA	1330				26.066	34.972	56.330	1.00 22.42	AAAA
MOTA			ASP A		24.186	33.971	55.746	1.00 21.79	AAAA
MOTA	1332		ASP A			34.717	58.010	1.00 17.98	AAAA
MOTA	1333		ALA A		22.239	34.717	57.708	1.00 17.36	AAAA
ATOM	1334		ALA A		20.824	35.860	57.700	1.00 17.00	AAAA
MOTA	1335	CB	ALA A		20.348	33.377	56 997	1.00 18.64	AAAA
ATOM	1336	С	ALA. A		20.439		56.819	1.00 19.46	AAAA
ATOM	1337	Ο.	ALA A		19.255	33.043 32.712	56.262	1.00 18.71	AAAA
ATOM	1338		HIS A		21.412		55.464	1.00 18.43	AAAA
ATOM	1339	CA	HIS A		21.107	31.518	55.986	1.00 18.02	AAAA
MOTA	1340	С	HIS A		21.802	30.265	56.514	1.00 17.20	AAAA
MOTA	1341	0	HIS A		22.910	30.332	54.004	1.00 17.20	AAAA
ATOM	1342	CB	HIS A		21.539	31.678	53.386	1.00 17.65	AAAA
MOTA	1343	CG	HIS A		21.137	32.968		1.00 18.08	AAAA
ATOM	1344	ND1	HIS A	170	21.644	34.162	53.828	1.00 18.05	AAAA
MOTA	1345	CE1	HIS A	170	21.112	35.081	53.054 52.348	1.00 18.81	AAAA
MOTA	1346		HIS A		20.301	33.194		1.00 19.66	AAAA
MOTA	1347	NE2	HIS A		20.291	34.544		1.00 17.53	AAAA
MOTA	1348	N	HIS F		21.142	29.124	55.793	1.00 17.33	AAAA
ATOM	1349	CA	HIS A			27.822	56.193	1.00 16.32	AAAA
ATOM	1350	CB	HIS A		20.644	26.740	55.830	1.00 15.32	AAAA
MOTA	1351	CG	HIS -		21.157	25.337	55.958	1.00 13.31	AAAA
ATOM	1352		HIS A		21.241	24.336	55.051	1.00 16.79	AAAA
MOTA	1353		HIS A		21.602	24.807	57.151	1.00 10.73	AAAA
MOTA	1354	CE1	HIS A	A 171	21.937	23.543	56.973	1.00 15.45	AAAA
MOTA	1355	NE2	HIS A		21.725	23.234	55.709 55.509	1.00 16.94	AAAA
MOTA	135.6	С		A 171	22.982	27.522	54.318	1.00 18.71	AAAA
ATOM	1357	0		A 171	23.146	27.725	56.279	1.00 16.99	AAAA
ATOM	1358	N		A 172	23.926	27.019	55.778	1.00 16.23	AAAA
MOTA	1359	CA		A 172	25.237	26.670	56.947	1.00 17.89	AAAA
ATOM "	1360	CB		A 172	26.219	26.721	58.397	1.00 17.89	AAAA
ATOM	1361	SG		A 172	25.638	25.773	55.210	1.00 16.57	AAAA
ATOM	1362	C		A 172	25.205	25.271	55.670	1.00 17.66	AAAA
ATOM	1363	0	CYS .	A 172	25.947	24.413	54.214	1.00 18.25	AAAA
ATOM	1364	N	ASP .	A 173	24.364	25.026	53.620	1.00 19.91	AAAA
ATOM	1365	CA		A 173	24.253	23.680	52.397	1.00 20.86	AAAA
MOTA	1366	CB	ASP .		23.342	23.699	51.358	1.00 21.90	AAAA
MOTA	1367	CG	ASP .	A 173	23.780	24.719	50.217	1.00 21.35	AAAA
MOTA	1368	OD1	ASP .	A 173	23.257	24.640		1.00 21.35	AAAA
MOTA	1369	OD2	ASP .	A 173	24.624	25.597	51.687	1.00 21.02	AAAA
ATOM	1370	С		A 173	25.573	23.021	53.227	1.00 22.79	AAAA
ATOM	1371	0	ASP .	A 173	25.673	21.785	53.199	1.00 20.03	AAAA
ATOM	1372	N	GLY	A 174	26.579	23.832	52.912	1.00 20.03	AAAA
ATOM	1373	CA		A 174	27.870	23.277	52.553	1.00 13.72	AAAA
ATOM	1374	С		A 174	28.537	22.680		1.00 20.27	AAAA
MOTA	1375	0		A 174	29.110	21.599	53.711	1.00 13.77	AAAA
ATOM	1376	N	VAL	A 175 ·	28.448	23.387		1.00 21.36	AAAA
MOTA	1377	CA		A 175	29.056	22.934	56.135	1.00 22.26	AAAA
ATOM	1378	CB		A 175	29.032	24.040		1.00 23.15	AAAA
ATOM	1379	CG1		a 175	29.853	23.617		1.00 22.84	AAAA
ATOM	1380	CG2	VAL	A 175	29.562			1.00 23.43	AAAA
ATOM	1381	С	VAL	A 175	28.302				AAAA
ATOM	1382	ō	VAL	A 175	28.893				AAAA
ATOM	1383	N	GLN	A 176	26.993				AAAA
ATOM	1384	CA	GLN	A 176	26.171				
ATOM	1385		GLN	A 176	24.689				AAAA
ATOM	1386			A 176	23.799	19.735	57.036	1.00 26.23	AAAA
A1014			-				-	•	•

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MOTA	1387	CD		A 176	22.		20.094	57.069	1.00	27.17	AAAA
MOTA	1388	OE1	GLN	A 176	21.	902	20.879	57.911	1.00	28.24	AAAA
ATOM	1389		GLN A				19.522	56.151		26.54	
ATOM	1390	C		A 176							AAAA
					26.		19.293	56.180		25.67	AAAA
MOTA	1391	0		i 176	26.		18.285	56.820	1.00	26.98	AAAA
ATOM	1392	N	GLU A	4 177	26.	490	19.309	54.853	1.00	26.34	AAAA
ATOM	1393	CA	GLU A		26.		18.117	54.073		26.18	
											AAAA
ATOM	1394	CB	GLU A		26.		18.468	52.580	1.00	27.13	AAAA
MOTA	1395	CG	GLU A	A 177	26.	769	17.269°	51.628	1.00	29.77	AAAA
ATOM	1396	CD	.GLU A	A 177	26.		17.660	50.147		31.29	AAAA
ATOM	1397		GLU A		27.						
							17.935	49.500		31.35	AAAA
ATOM	1398	OE2			25.	-	17.703	49.636	1.00	32.05	AAAA
ATOM	1399	С	GLU A	177	· 28.	160	17.556	54.460	1.00	26.38	AAAA
ATOM	1400	0	GLU A	177	28.	338	16.349	54.595		25.41	AAAA
ATOM	1401	N	ALA A		29.						
							18.458	54.659		27.58	AAAA
ATOM	1402	CA	ALA A		30.		18.119	55.004	1.00	27.66	- AAAA
MOTA	1403	CB	ALA A	178	31.	345	19.385	54.994	1.00	26.20	AAAA
ATOM	1404	С	ALA A		30.		17.370	56.318		28.33	AAAA
	1405	ō	ALA A								
ATOM					31.		16.626	56.439		29.44	AAAA
ATOM	1406	N	PHE A		29.	849	17.564	57.308	1.00	28.25	AAAA
ATOM	1407	CA	PHE A	179	30.	036	16.852	58.561	1.00	29.20	AAAA
ATOM	1408	CB	PHE A	179	30.		17.794	59.624		29.35	
	1409										AAAA
ATOM		CG	PHE A		31.		18.572	59.171	1.00	30.26	AAAA
ATOM	1410		.PHE A		31.	582	19.777	58.497	1.00	31.01	AAAA
MOTA	1411	CD2	PHE A	179	33.	033	18.069	59.339	1.00	30.37	AAAA
MOTA	1412		PHE A		32.		20.470	57.993		31.20	AAAA
	1413		PHE A								
ATOM					34.		18.749			31.74	AAAA
MOTA	1414	CZ	PHE A		33.	950 :	19.960	58.161	1.00	31.81	AAAA
ATOM	1415	С	PHE A	179	28.	760	16.180	59.040	1.00	30.33	AAAA
ATOM	1416	0	PHE A		28.		15.810	60.215		31.82	AAAA
	1417	N									
MOTA			TYR A		27.		15.994	58.105		29.18	AAAA
ATOM	1418	CA	TYR A	180	26.	564	15.379	58.389	1.00	28.99	AAAA
ATOM	1419	CB	TYR A	180	25.	725	15.343	57.123	1.00	28.30	AAAA
MOTA	1420	CG	TYR A	180			15.422	57.384		28.27	AAAA
ATOM	1421		TYR A	100	23.	202					
							14.386	57.021		27.05	AAAA
ATOM	1422		TYR A		22.0		14.491	57.197	1.00	28.51	AAAA
MOTA	1423	CD2	TYR A	180	23.0	686	16.573	57.942	1.00	29.34	AAAA
ATOM	1424	CE2			22.3		16.691	58.125		29.27	AAAA
ATOM	1425	CZ	TYR A		21.4		15.645	57.746			
										29.33	AAAA
ATOM	1426	OH	TYR A		20.3		15.775	57.893		30.83	AAAA
ATOM	1427	С	TYR A	180	26.0	673 :	13.970	58.940	1.00	28.79	AAAA
MOTA	1428	O	TYR A	180	25.8	877	13.577	59.785	1 00	28.71	AAAA
ATCM	1429	N	ASP A		27.			. 58 . 472		29.03	AAAA
	1430										
ATOM		CA	ASP A		27.8		11.828	58.914		28.49	AAAA
ATOM	1431	CB	ASP A	181	28.3	140 :	LO.930	57.715	1.00	27.59	· AAAA
ATOM	1432	CG	ASP A	181	29.5	548	11 122	57.229	1.00	28.82	AAAA
ATOM	1433	OD1	ASP A	181	29 : 9		L2 292	57.183		29.25	AAAA
ATCM	1434		ASP A								
					30.2		10 119	56.887		28.68	AAAA
ATOM	1435	С	ASP A		28.8	B63 :	11.631	60.009	1.00	27.67	AAAA
ATOM	1436	Ο.	ASP A	181	29.2	271 1	LO.504	60.293	1.00	27.57	AAAA
ATCM	1437	N	THR A		29.3		12.713	60.628		26.27	AAAA
	1438										
ATCM		CA	THR A		30.2		L2.544	61.689		26.22	AAAA
MOTA	1439	CB	THR A		31.6	570	13.118	61.317	1.00	25.92	AAAA
ATCM	1440	OG1	THR A	182	32.5	564	12.935	62.416	1.00	25.06	AAAA
ATOM	1441		THR A		31.5		14.594	60.974		25.25	AAAA
ATOM	1442	C	THR A		29.7		13.223	62.934		25.87	AAAA
ATOM	1443	0	THR A		28.9		14.102	62.863	1.00	26.35	AAAA
ATCM	1444	11	ASP A	183	30.3		12.804	64.071		25.86	AAAA
ATOM	1445	CA	ASP A		29.9		13.370	65.355		26.12	AAAA
ATCM	1446	CB	ASP A		29.4		L2.260	66.274		27.10	AAAA
ATOM	1447	CG	ASP A	183	30.5	515 1	L1.194	66.488	1.00	28.80	AAAA
ATOM	1448	OD1	ASP A	183	31.0		10.691	65.480		29.78	AAAA
ATOM	1449		ASP A		30.7		10.852	67.657		29.21	AAAA
ATCM	1450	C	ASP A		31.1		14.120	65.995		26.77	AAAA
ATCM	1451	0	ASP A	183	31.0		14.566	67.146	1.00	26.65	AAAA
ATCM	1452	N	GLN A		32.2		14.254	65.254		26.05	AAAA
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ATOM	1453	CA	GLN A	184	33.381	14.983	65.766	1.00 25.85	AAAA
ATOM	1454	CB	GLN A	184	34.674	14.510	65.095	1.00 26.30	አ አአጻ
ATOM	1455		GLN A		34.920	13.030	65.303	1.00 27.42	AAAA
			GLN A		36.273	12.583	64.822	1.00 28.40	AAAA
MOTA	1456				36.685	12.905	63.709	1.00 30.05	AAAA
ATOM	1457		GLN A					1.00 29.24	AAAA
MOTA	1458	NE2	GLN A	184	36.970	11.816	65.651		
MOTA	1459	С	GLN A	184	33.159	16.474	65.536	1.00 25.22	AAAA
ATOM	1460	0	GLN A	184	33.734	17.316	66.220	1.00 24.57	AAAA
			VAL A		32.290	16.791	64.584	1.00 25.17	AAAA
MOTA	1461					18.182	64.291	1.00 24.49	AAAA
MOTA	1462		VAL A	-	31.975		62.832	1.00 23.20	AAAA
MOTA	1463	CB	VAL A		32.324	18.563			
ATOM	1464	CG1	VAL A	185	32.045	20.050	62.599	1.00 19.72	AAAA
ATOM	1465	CG2	VAL A	185	33.777	18.205	62.543	1.00 20.67	AAAA .
	1466	С	VAL A	_	30.494	18.421	64.501	1.00 24.81	AAAA
ATOM			VAL A		29.664	17.787	63.844	1.00 27.07	AAAA
MOTA	1467	0			30.162	19.311	65.434	1.00 23.40	AAAA
MOTA	1468	N	PHE A				65.684	1.00 20.31	AAAA
MOTA	1469	CA	PHE A	186	28.768	19.645			
ATOM	1470	CB	PHE A	186	28.513	19.937	67.164	1.00 19.77	AAAA
ATOM	1471	CG	PHE A	186	27.057	20.037	67.500	1.00 18.55	AAAA
ATOM	1472		PHE A		26.359	18.918	67.945	1.00 17.70	AAAA
			PHE A		26.358	21.213	67.263	1.00 17.46	AAAA
MOTA	1473				24.999	18.964	68.147	1.00 17.35	AAAA
MOTA	1474		PHE A				67.459	1.00 18.83	AAAA
MOTA	1475	CE2	PHE A		24.997	21.271			
ATOM	1476	CZ	PHE A		24.308	20.138	67.905	1.00 18.67	AAAA
MOTA	1477	С	PHE A	. 186	28.464	20.911	64.895	1.00 19.18	AAAA
ATOM	1478	0	PHE A	186	29.079	21.940	65.129	1.00 18.82	AAAA
	1479	N	VAL A		27.520	20.834	63.964	1.00 18.34	AAAA
ATOM	1480	CA	VAL A		27.137	21.993	63.160	1.00 16.47	AAAA
MOTA			VAL A		27.006	21.630	61.655	1.00 14.30	AAAA
MOTA	1481	CB				22.869	60.828	1.00 10.34 .	AAAA
MOTA	1482		VAL A		26.628			1.00 12.07	AAAA
ATOM	1483	CG2	VAL A		28.314	21.031	61.160		AAAA
MOTA	1484	С	VAL A	187	25.806	22.511	63.665	1.00 17.43	
MOTA	1485	0	VAL A	187	24.852	21.746		1.00 16.95	AAAA
ATOM	1486	N	LEU A	188	25.763	23.809	63.960	1.00 18.66	AAAA
ATOM	1487	CA	LEU A		24.555	24.507	64.460	1.00 20.51	AAAA .
	1488	CB	LEU A		24.752	24.995	65.914	1.00 21.24	AAAA
ATOM	1489	CG	LEU A		23.702	26.019	66.395	1.00 20.80	AAAA
ATOM			LEU A		22.365	25.323	66.493	1.00 19.77	AAAA
MOTA	1490				24.085	26.627	67.750	1.00 20.63	AAAA
ATOM	1491		LEU A				63.591	1.00 20.41	AAAA
ATOM .	1492	C	LEU A		24.297	25.735		1.00 21.86	AAAA
MOTA	1493	0	LEU A		25.223	26.484	63.288		AAAA
MOTA	1494	N	SER A	189	23.049	25.987	63.233	1.00 19.32	
ATOM	1495	CA	SER A	189	22.786	27.130	62.381	1.00 18.06	AAAA
ATOM	1496	CB	SER A	189	22.970	26.715	60.906	1.00 18.54	AAAA
	1497	ÖĞ	SER A		22.559	27.731	59.998	1.00 17.47	AAAA
ATOM			SER A		21.418		62.554	1.00 17.90	AAAA
MOT A	1498	С	SEN A	100	20.404	27.051	62.540	1.00 19.54	AAAA
MO'1 K	1499	0	SER A	1 103		29.067	62.722	1.00 16.97	AAAA
A.OM	1500	N	LEU A		21.386		62.797	1.00 18.49	AAAA
ATOM	1501	$C\lambda$	LEU A		20.117	29.772		1.00 17.78	AAAA
ATOM	1502	ÇВ	LEU A	190	20.097	30.865	63.886		
MOTA	1503	ĊG	LEU A	190 -	20.534	30.600	65.337	1.00 17.10	AAAA
ATOM	1504		LEU A		19.643	31.406	66.266	1.00 15.50	AAAA
	1505	CD2	LEU A	190	20.455	29.147	65.686	1.00 15.15	AAAA
ATOM			LEU A		20.111	30.408	61.416	1.00 19.35	AAAA
ATOM	1506	C			21.136	30.891	60.967	1.00 19.75	AAAA
ATOM	1507	၁	LEU A					1.00 21.75	AAAA
ATOM	1508	Ŋ	HIS A	1 191	18.975	30.397		1.00 23.55	AAAA
ATOM	1509	CA	HIS A		18.897	30.955	59.383	1.00 43.33	AAAA
ATOM	1510	CB	HIS A	A 191	19.626	30.013	58.426	1.00 23.63	
ATOM	1511	CG	HIS A		19.157	28.597		1.00 24.26	
	1512		HIS A		19.770	27.485	59.009	1.00 23.78	AAAA
ATOM			HIS		17.869	28.217		1.00 24.73	AAAA
ATOM	1513				17.709	26.935		1.00 23.90	AAAA
ATOM	1514	CEI	HIS A	n 171				1.00 24.51	AAAA
ATOM	1515		HIS	A 191	18.849				
ATOM	1516	С		A 191	17.446				AAAA
ATOM	1517	9		A 191	16.519				AAAA
MOTA	1518	N	GLN	A 192	17.249	31.789	57.794	1.00 24.33	AAAA
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MOTA	1519	CA	GLN ?	192	15.899	31.959	57.269	1.00 25.	77 AAAA
ATOM	1520	CB	GLN A	192	15.881	32.896	56.060	1.00 26.	
ATOM	1521	CG	GLN A	192	16.467	34.271	56.325	1.00 26.	
ATOM	1522	CD	GLN A	192	16.581	35.076	55.062	1.00 27.	
MOTA	1523		GLN A		15.583	35.496	54.493	1.00 30.	
ATOM	1524	NE2	GLN A	192	17.802	35.274	54.595	1.00 29.0	
ATOM	1525	С	GLN A		15.463	30.573	56.832	1.00 25.	
ATOM	1526	0	GLN A		16.211	29.865	56.169	1.00 26.	
ATOM	1527	N	SER A		14.259	30.184	57.214	1.00 25.4	
ATOM	1528	CA	SER A		13.750	28.877	56.863	1.00 24.	
ATOM	1529	CB	SER A		12.288	28.788	57.286	1.00 23.	
ATOM	1530	OG	SER A		11.753	27.517	57.010	1.00 24.1	
ATOM	1531	c	SER A		13.906	28.597	55.361	1.00 24.	
ATOM	1532	ō	SER A		13.736	29.479	54.522	1.00 22.	
ATOM	1533	N .	PRO A		14.226	27.348	55.007	1.00 25.0	
ATOM	1534	CD	PRO A		14.411	26.167	55.862	1.00 25.0	
ATOM	1535	CA	PRO A		14.399	26.976	53.604	1.00 27.0	
ATOM	1536	CB		194 🕾	14.906	25.535	53.697	1.00 26.	
ATOM	1537	CG	PRO A		15.479	25.466	55.124	1.00 26.4	
ATOM	1538	C	PRO A		13.076	27.057	52.849	1.00 27.3	
ATOM	1539	0	PRO A		13.066	27.057	51.625	1.00 28.8	
ATOM	1540	N	GLU A		11.966	27.133	53.582	1.00 28.2	
ATOM	1541	CA	GLU A		10.656	27.187	52.950	1.00 29.0	
ATOM	1542	CB	GLU A		9.534		54.001	1.00 31.0	
MOTA	1543	CG	GLU A		9.070	28.294	54.722	1.00 35.0	
ATOM	1544	CD	GLU A		7.850	28.980	54.064	1.00 38.0	
ATOM	1545		GLU A		7.389	30.017	54.601	1.00 38.8	
ATOM:	1546		GLU A		7.342	28.487	53.024	1.00 39.2	
ATOM	1547	С	GLU A		10.483	28.471	52.150	1.00 28.0	
ATOM	1548	0	GLU A		9.722	28.512	51.189	1.00 28.5	
ATOM	1549	N	TYR A		11.223	29.510	52.514	1.00 27.3	
ATOM	1550	CA	TYR A		11.108	30.769	51.802	1.00 25.8	
ATOM	1551	CB	TYR A		10.275	31.743	52.645	1.00 24.9	
MOTA	1552	CG	TYR A	196	10.971	32.281	53.868	1.00 23.4	
ATOM	1553	CD1	TYR A	196	11.911	33.306	53.765	1.00 23.9	
MOTA	1554	CE1	TYR A	196	12.559	33.805	54.892	1.00 23.4	
ATOM .	1555	CD2	TYR A		10.697	31.768	55.126	1.00 23.2	
MOTA	1556	CE2	TYR A	196	11.336	32.256	56.254	1.00 23.9	AAAA E
MOTA	1557	CZ .	TYR A	196	12.265	33.270	56.133	1.00 24.0)7 AAAA
MOTA	1558	OH	TYR A	196	12.913	33.731	57.247	1.00 25.0	AAAA 6
MOTA	1559	С	TYR A		12.450	31.406	51.411	1.00 24.9	7 AAAA
ATOM	1560	0	TYR A		12.475	32.495	50.840	1.00 25.1	4 AAAA
MOTA	1561	N	ALA A		13.563	30.737	51.686	1.00 23.8	
MOTA	1562	CA	'ALA A		14.855	31.330	51.337	1.00 23.3	32 AAAA
MOTA	1563	CB	YLY Y		15.350	32.220	52.488	1.00 23.3	
ATOM -		С	ALA A		15.952	30.356	50.957	1.00 22.7	
ATOM	1565		ALA A		15.951	29.207		1.00 22.4	
ATOM -				-198		30.852	50.16	1.00 23.2	
ATOM	1567	CA	PHE A			30.081	49.741	1.00 23.6	
MOTA	1568	CB	PHE A		19.083	31.006	49.069	1.00 23.3	
ATOM	1569	CG	PHE A			30.280	48.464	1.00 22.9	
ATOM	1570		PHE A		20.151	29.713	47.203	1.00 22.7	
ATOM	1571		PHE A		21.436	30.127	49.175	1.00 23.3	
ATOM	1572		PHE A			29.003	46.645	1.00 22.1	
ATOM	1573		PHE A		22.512	29.408	48.622	1.00 22.8	
MOTA	1574	CZ	PHE A		22.386	28.849	47.351	1.00 22.5	
ATOM	1575	C	PHE A			29.490	51.008	1.00 23.6	
MOTA	1576	0	PHE A		18.802	30.171	52.012	1.00 22.8	
ATOM	1577	N	PRO A		19.166	28.236	50.954	1.00 23.9	
ATOM	1578	CD	PRO A		19.833	27.639	52.123	1.00 24.2	
ATCM	1579	CA	PRO A		19.199	27.286	49.837	1.00 24:7	
ATOM	1580	CB	PRO A		20.163	26.222	50.357	1.00 23.3	
ATOM	1581	CG	PRO A		19.797	26.162	51.782	1.00 23.2	
MOTA	1582	C	PRO A		17.885	26.679	49.326	1.00 25.2	
ATOM	1583		PRO A		17.866	26.145	48.215	1.00 26.2	
ATOM	1584	N	PHE A	200	16.811	26.756	50.116	1.00 25.0	19 AAA A

240/263

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MOTA	1585	CA .	PHE A 20	0	15.497	26.190	49.763	1.00 26.29	AAAA
	1586	CB	PHE A 20	0	15.064	26.567	48.340	1.00 25.65	AAAA
MOTA			PHE A 20		14.863	28.035	48.122	1.00 24.65	AAAA
MOTA	1587				15.806	28.781	47.439	1.00 24.42	AAAA
MOTA	1588	CDI	PHE A 20	0		28.671	48.608	1.00 23.79	AAAA
ATOM	1589	CD2	PHE A 20	Ū	13.735		47.246	1.00 24.41	AAAA
ATOM-	1590	CEl	PHE A 20	0	15.631	30.125		1.00 24.94	AAAA
ATOM	1591	CE2	PHE A 20	0	13.552	30.035	48.418		AAAA:
ATOM	1592	CZ	PHE A 20	0	14.499	30.760	47.738	1.00 24.57	
	1593		PHE A 20		15.415	24.656	49.863	1.00 28.54	AAAA
MOTA	1594	0	PHE A 20	0	14.386	24.096	50.251	1.00 28.76	AAAA
MOTA		N	GLU A 20	11	16.499	23.981	49.504	1.00 29.67	AAAA
MOTA	1595		GLU A 20		16.539	22.528	49.524	1.00 31.88	AAAA
MOTA	1596		GLU A 20	11 .	17.434	22.045	48.392	1.00 32.71	AAAA
MOTA	1597		GLU A 20			22.415	47.017	1.00 34.87	AAAA
ATOM	1598	CG	GLU A 20		16.897		45.912	1.00 35.14	AAAA
MOTA	1599		GLU A 20		17.898	22.147		1.00 36.09	AAAA
ATOM	1600	OE1	GLU A 20)1	18.299	20.982	45.735		AAAA
ATOM	1601	OE2	GLU A 20)1	18.286	23.112	45.221	1.00 36.30	
ATOM	1602	С	GLU A 20)1	16.997	21.894	50.835	1.00 32.77	AAAA
	1603	Õ	GLU A 20		16.806	20.690	51.046	1.00 33.44	AAAA
MOTA	1604	N	LYS A 20		17.599	22.690	51.711	1.00 32.31	AAAA
MOTA	_		LYS A 20		18.101	22.168	52.974	1.00 32.09	AAAA
MOTA	1605	CA			19.565	21.750	52.811	1.00 33.02	AAAA
MOTA		CB	LYS A 20	22	19.836	20.847	51.623	1.00 34.95	AAAA
MOTA	1607	CG	LYS A 20			20.619	51.436	1.00 37.92	AAAA
MOTA	1608	CD	LYS A 20		21.334			1.00 39.19	AAAA
ATOM	1609	CE	LYS A 20	02	21.655	19.804	50.169	1.00 38.58	AAAA
ATOM	1610	NZ	LYS A 20		23.120	19.522	49.988		AAAA
MOTA	1611	С	LYS A 20	02	17.995	23.241	54.037	1.00 30.85	AAAA
ATOM	1612	0	LYS A 20	02 .	17.706	24.389	53.739	1.00 30.49	
MOTA	1613	N	GLY A 2	03	18.238	22.867	55.281	1.00 30.81	AAAA
	1614	CA	GLY A 2		18.159	23.831	56.356	1.00 30.86	AAAA
MOTA	1615	C	GLY A 2		16.991	23.578	57.280	1.00 30.84	AAAA
ATOM			GLY A 2		16.828	24.285	58.272	1.00 31.58	AAAA
MOTA	1616	0	PHE A 2		16.182	22.570	56.965	1.00 30.54	AAAA
MOTA	1617				15.025	22.241	57.797	1.00 30.51	AAAA
ATOM	1618	CA	PHE A 2		14.061	21.317	57.058	1.00 29.06	AAAA
ATOM	1619	CB	PHE A 2			21.890	55.787	1.00 27.13	AAAA
ATOM	1620	CG	PHE A 2		13.524		54.601	1.00 26.52	AAAA
ATOM	1621		PHE A 2		14.222	21.762	55.779	1.00 26.50	AAAA
MOTA	1622	CD2	PHE A 2	04	12.307	22.548		1.00 26.44	AAAA
ATOM	1623	CE1	PHE A 2	04	13.713	22.276	53.420	1.00 26.44	AAAA
ATOM	1624	CE2	PHE A 2	04	11.786	23.069	54.600	1.00 26.69	AAAA
ATOM	1625	CZ	PHE A 2	04	12.490	22.931	53.416	1.00 25.65	
ATOM	1626	c	PHE A 2		15.401	21.590	59.127	1.00 30.87	AAAA
	1627	ō	PHE A 2		16.395	20.875	59.228	1.00 31.12	AAAA
ATOM		N	LEU A 2		14.580	21.844	60.139	1.00 31.22	AAAA
ATOM	1628	CA	LEU A 2		14.782	21.329	61.489	1.00 31.43	AAAA
MOTA	1629				13.575	21.691	62.357	1.00 31.42	AAAA
ATOM	1630	CB	LEU A 2		13.603	21.078	63.755	1.00 31.76	AAAA
MOTA	1631	CG	LEU A 4		14.894	21.492	64.457	1.00 32.36	AAAA
ATOM	1632	CDI	LEU A 2	5	12.379	21.516	64.536	1.00 31.31	AAAA
MOTA	1633		LEU A 2	:05		19.829	61.625	1.00 31.35	AAAA
MOTA	1634	С	LEU A 2		15.026		62.546		AAAA
MOTA	1635	0	LEU A 2		15.714	19.392		1.00 31.79	AAAA
ATOM	1636	N	GLU A 2	206	14:448		. 60 . 707		AAAA
ATOM	1637	CA	GLU A 2	206	14.509		60.706	1.00 32.08	AAAA
MOTA	1638	CB.	GLU A 2	206	13.485		59.716	1.00 33.18	
	1639	CG	GLU A 2	206	12.069	17.651	59.829	1.00 34.20	AAAA
ATOM		CD	GLU A 2	206	11.973	19.136		1.00 33.44	AAAA
ATOM	1640		GLU A 2	206	10.854		59.422	1.00 33.32	AAAA
ATOM	1641	0E1	GLU A 2	206	13.005			1.00 35.12	AAAA
MOTA	1642				15.882				AAAA
MOTA	1643	C	GLU A 2		16.209				AAAA
MOTA	1644	0	GLU A						AAAA
ATOM	1645	N	GLU A		16.680				AAAA
ATOM	1646	CA	GLU A 2	207	18.017				AAAA
MOTA	1647	CB	GLU A	207	18.552	18.385			AAAA
MOTA	1648		GLU A	207	17.768				
ATOM	1649				17.953	19.547		1.00 30.04	AAAA
ATOM	1650		1 GLU A		19.108	19.991	. 55.971	1.00 30.31	
AIOM.			•				-		•

ATOM	1651	OE2	GLU A	207	16.947	20.070	55.604	1.00 30	.76	AAAA
ATOM	1652	C	GLU A		18.879	17.433	60.537	1.00 32		AAAA
			GLU A		19.472	18.448	60.910	1.00 31		AAAA
MOTA	1653	0					61.178	1.00 32		
ATOM	1654	N	ILE A		18.935	16.272				AAAA
MOTA	1655	CA	ILE A		19.674	16.111	62.408	1.00 33		AAAA
MOTA	1656	CB	ILE A		18.709	15.647	63.519	1.00 33.		AAAA
MOTA	1657		ILE A		19.443	15.380	64.806	1.00 34		AAAA
MOTA	1658	CG1	ILE A	208	17.673	16.742	63.757	1.00 33		AAAA
MOTA	1659	CD1	ILE A		16.628	16.386	64.794	1.00 37		AAAA
ATOM	1660	С	ILE A	208	20.863	15.174	62.280	1.00 34	.00	AAAA
ATOM	1661	0	ILE A	208	21.506	14.829	63.265	1.00 34	.40	AAAA
ATOM	1662	N	GLY A	209	21.177	14.768	61.062	1.00 34	. 64	AAAA
ATOM	1663	CA	GLY A	209	22.321	13.903	60.913	1.00 35	.55	AAAA ·
ATOM	1664	С	GLY A	209	22.164	12.671	60.057	1.00 36	.80	AAAA
ATOM	1665	Ō	GLY A	209	21.148	12.461	59.400	1.00 37	.32	AAAA
MOTA	1666	N	GLU A		23.199	11.836	60.100	1.00 37	.78	AAAA
ATOM	1667	CA	GLU A		23.256	10.621	59.315	1.00 38	. 04	AAAA
ATOM	1668	CB	GLU A		23.600	11.013	57.892	1.00 38		AAAA
MOTA	1669	CG.	GLU A		23.469	9.960	56.858	1.00 38		AAAA
ATOM	1670	CD		210	24.118	10.412	55.580	1.00 40		AAAA
ATOM	1671		GLU A		25.365	10.437	55.555	1.00 40		AAAA
	1672		GLU A		23.396	10.767	54.619	1.00 40		AAAA
MOTA			GLU A		24.377	9.770	59.894	1.00 37		AAAA
MOTA	1673	C			25.498	10.244	60.041	1.00 37		AAAA
ATOM	1674	0	GLU A		24.085	8.517	60.220	1.00 38		AAAA
ATOM	1675	N	GLY A		25.116	7.654	60.770	1.00 38		AAAA
MOTA	1676	CA	GLY A			8.075	62.164	1.00 38		AAAA
MOTA	1677	C	GLY A		25.542			1.00 37		AAAA
MOTA	1678	0	GLY A		24.697	8.443	62.977	1.00 37		AAAA
ATOM	1679	N	LYS A		26.848	8.030	62.434 63.743	1.00 37		AAAA
ATOM	1680	CA	LYS A		27.396	8.399		1.00 37		AAAA
ATOM	1681	CB	LYS A		28.921	8.209	63.766			AAAA
MOTA	1682	CG	LYS A		29.416	6.810	63.385	1.00 40		AAAA
ATOM	1683	CD	LYS A		29.001	5.746	64.405	1.00 42		
MOTA	1684	CE	LYS A		29.251	4.318	63.891	1.00 42		AAAA
MOTA	1685	NZ	LYS A		30.673	4.002	63.562	1.00 42		AAAA
MOTA	1686	С	LYS A		27.093	9.859	64.054	1.00 37		AAAA
MOTA	1687	0	LYS A		27.075	10.269	65.218	1.00 36		AAAA
MOTA	1688	N	GLY A		26.854	10.636	63.002	1.00 35		AAAA
MOTA	1689	CA	GLY A		26.592	12.054	63.170	1.00 34		AAAA
MOTA	1690	C	GLY A		25.163	12.438	63.470	1.00 33		AAAA
ATOM	1691	0	GLY A		24.861	13.611	63.666	1.00 33		AAAA
MOTA	1692	N	LYS A		24.280	11.451	63.512	1.00 31		AAAA
MOTA	1693	CA	LYS A		22.883	11.710	63.794	1.00 30		AAAA
ATOM	1694	CB	LYS A		22.111	10.396	63.737	1.00 30		AAAA
MOTA	1695	CG	LYS A		20.676	10.552	63.280	1.00 30		AAAA
MOTA	1696	CD	LYS A	214		9.241	62.759	1.00 29		AAAA
ATOM	1697	CE	LYS A		18.737	9.400	62.229	1.00 30		AAAA
ATOM	1698	NZ	LYS A		18.179	8.138	61.671	1.00 31		AAAA
ATOM	1699	С	LYS A		22.778	12.374	65.168	1.00 30		AAAA
ATOM	1700	0	LYS A	214	23.193	11.814	66.177	1.00 30		AAAA
MOTA	1701	N	GLY A		22.243	13.590	65.192			AAAA
MOTA	1702	CA	GLY A		22.128	14.325	66.437	1.00 29		AAAA
MOTA	1703	С	GLY A	215	23.222	15.379	66.582	1.00 28		AAAA
MOTA	1704	0	GLY A	215	23.306	16.061	67.602	1.00 28		AAAA
ATOM	1705	N	TYR A		24.063	15.521	65.561	1.00 27		AAAA
ATOM	1706	CA	TYR A	216	25.150	16.497	65.616	1.00 27		AAAA
ATOM	1707	CB	TYR A		26.516	15.800	65.531	1.00 28		AAAA
MOTA	1708	CG	TYR A		26.786	14.966	66.757	1.00 30		AAAA
ATOM	1709		TYR A		26.138	13.735	66.955	1.00 29		AAAA
ATOM	1710		TYR A		26.311	13.014	68.138	1.00 30		AAAA
ATOM	1711		TYR A		27.619	15.450	67.774	1.00 29		AAAA
ATOM	1712		TYR A		27.798	14.741	68.957	1.00 29	.96	AAAA
ATOM	1713	CZ	TYR A		27.143	13.528	69.138	1.00 30	.84	AAAA
ATOM	1714	ОН	TYR A		27.297	12.859	70.332	1.00 31		AAAA
ATOM	1715	c c	TYR A		25.055	17.599	64.581	1.00 25	.40	AAAA
ATOM	1716	ŏ	TYR A		26.046	18.240	64.243	1.00 26	.38	AAAA
										

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	25.87 AAAA
17 722 27 371 64 557 1 00	25.04 AAAA
ATOM 1/43 CB IDE A 220	25.24 AAAA
ATOM 1/44 CG2 ILL A 220	24.07 AAAA
ATOM 1/45 CG1 ILE A 220	22.28 AAAA
ATOM 1746 CD1 ILE A 220 17.557 25.502 66.378 1.00	
1747 C ILE A 220 16.430 27.370 62.414 1.00	26.20 AAAA
1748 0 115 3 220 16 801 28 534 62 265 1 .00	25.35 AAAA
ATOM 1740 N PRO 3 221 15.421 26.850 61.704 1.00	26.70 AAAA
ATOM 1743 RT DDG 1 221 14 840 25 501 61 778 1.00	27.17 AAAA
ATOM 1/30 CD PRO A 221	27.67 AAAA
ATOM 1/51 CA PRO A 221	26.81 AAAA
ATOM 1/32 CB PRO A 221 231/12	27.36 AAAA
ATOM 1/53 CG PRO A 221	-
NTOM 1754 C PRO A 221 13.944 28.763 61.390 1.00	
1755 O PRO A 221 13.218 28.515 62.363 1.00	29.91 AAAA
1756 N 15H h 222 14.100 29.990 60.900 1.00	28.15 AAAA
ATOM 1757 C3 LEU 3 222 13 408 31 117 61 511 1 .00	28.48 AAAA
ATOM 1737 CA DEC 3 222 14 431 32 041 62 191 1.00	28.69 AAAA
ATOM 1/38 CD DEU A 242	28.67 AAAA
ATOM 1/59 CG DEU A 222	28.62 AAAA
ATOM 1/60 CDI LEU A 222	27.65 AAAA
NTOM 1761 CD2 LEU A 222 14.231 31.106 54.327 1.00	- ·
3TOM 1762 C LEU A 222 12. 26 31.882 60.518 1.00	28.44 AAAA
NTOM 1763 O LEU A 222 12.318 31.958 59.325 1.00	27.90 AAAA
1764 3	28.79 AAAA
ATOM 1705 CD DDO 1 223 10 966 32 357 62 410 1.00	29.20 AAAA
7.1(1)(1) 1.100 CD 1.00	29.36 AAAA
ATOM 1/66 CA FRO A 222 0 256 33 297 61 183 1 00	28.98 AAAA
ATOM 1/6/ CB PRO A 223	28.68 AAAA
ATOM 1768 CG PRO A 223 9.965 33.502 62.463 1.00	30.15 AAAA
NTOM 1769 C PRO A 223 10.890 34.585 59.753 1.00	
3700 1770 O PRO A 223 11.864 35.152 60.253 1.00	30.18 AAAA
10 150 35.112 58.781 1.00	30.50 AAAA
ATOM 1772 CD 1762 3 224 10 398 36,422 58,213 1.00	1 29.92 AAAA
9 491 36 661 57 008 1.00	30.57 AAAA
ATOM 1//3 CB LIS A 224 0 580 35 576 55 893 1 00	30.06 AAAA
ATOM 1774 CG LYS A 224 9.308 33.000	30.91 AAAA
ATOM 1775 CD LYS A 224 8.640 36.087 54.795 1.00	
3TOM 1776 CE LYS A 224 8.575 35.051 53.705 1.00	
1777 NZ 1VS 3 224 . 7.628 35.476 52.648 1.00	32.75 AAAA
ATOM 1770 0 175 324 10 050 37,468 59,260 1.00	29.75 AAAA
ATOM 1778 2 176 2 224 9 308 37 193 60.196 1.00	29.84 AAAA
ATOM 1779 0 LIS A 224 10 555 30 679 59 079 1 00	29.39 AAAA
ATCM 1780 N GLI A 225 10 251 30 730 60 031 1.00	29.87 . AAAA
TOM 1781 CA GLY A 225 10.281 39.730 60.331 1.00	29.85 AAAA
ATOM 1782 C GLY A 225 10.809 39.447 61.415 1.00	, 25.05

ATOM	1783	0	GLY	A 22	10.371	40.051	62.392	1.00 29.85	AAAA
ATOM	1784	N	LEU	A 22	11.775	38.536	61.499	1.00 29.50	AAAA
ATOM	1785	CA		A 22		38.175	62.778	1.00 29.80	
									AAAA
ATOM	1786	CB		A 22			62.570	1.00 28.81	AAAA
MOTA	1787	CG		A 22		36.514	63.820	1.00 27.29	AAAA
ATOM	1788	CD1				35.452	64.275	1.00 26.06	AAAA
ATOM	1789	CD2	LEU	A 22	15.455	35.888	63.538	1.00 27.03	AAAA
ATOM	1790	С		A 22		39.428	63.448	1.00 30.68	AAAA
ATOM	1791	ō		A 22					
						40.217	62.804	1.00 30.57	AAAA
MOTA	1792	N		A 22		39.617	64.729	1.00 31.46	AAAA
MOTA	1793	CA		A 22		40.769	65.469	1.00 32.06	AAAA
MOTA	1794	CB	ASN	A 22	12.012	41.507	66.217	1.00 31.74	AAAA
ATOM	1795	CG		A 22		40.630	67.234	1.00 32.07	AAAA
MOTA	1796		ASN			40.017	68.104	1.00 31.61	
	1797	ND2							AAAA
MOTA		-				40.592	67.141	1.00 31.59	AAAA
MOTA	1798	С		A 22		40.334	66.444~		AAAA
ATOM	1799	0	ASN	A 22	14.413	39.140	66.688	1.00 32.78	AAAA
MOTA	1800	N	ASP	A 22	14.943	41.297	67.002	1.00 33.32	
ATOM	1801	CA	ASP	A 22	16.017	40.976	67.928	1.00 34.75	AAAA
ATOM	1802	CB		A 22		42.233		1.00 36.77	
									AAAA
MOTA	1803	CG		A 22		43.238	67.714	1.00 37.28	AAAA
MOTA	1804		ASP			42.816	66.652	1.00 37.78	AAAA
MOTA	1805	OD2	ASP	A 22	17.180	44.443	68.054	1.00 37.21	AAAA
ATOM	1806	С	ASP	A 22	15.707	39.892	68.964	1.00 34.93	AAAA
ATOM	1807	0	ASP			38.919	69.056	1.00 36.92	AAAA
ATOM	1808	N	ASN			40.054	69.741		
	1809	CA						1.00 33.90	AAAA
MOTA				A 22		39.079	70.775	1.00 33.01	AAAA
ATOM	1810	CB	ASN			39.481	71.455	1.00 33.79	AAAA
ATOM	1811	CG	ASN			40.663	72.369	1.00 34.04	AAAA
ATOM -	1812	OD1	ASN	A 22	13.783	40.564	73.405	1.00 34.25	AAAA
ATOM	1813	ND2	ASN	A 22	12.550	41.797	71.988	1.00 34.05	AAAA
MOTA	1814	С	ASN			37.656	70.276	1.00 32.98	AAAA
ATOM	1815	ō	ASN			36.697	70.944	1.00 32.77	
	1816		GLU						AAAA
ATOM		N				37.523	69.108	1.00 32.02	AAAA
ATOM	1817	CA	GLU			36.227	68.516	1.00 30.72	AAAA
ATOM	1818	CB	GLU .	A 23	12.399	36.375	67.272	1.00 31.38	AAAA
ATOM	1819	CG	GLU .	A 23	11.006	36.896	67.583	1.00 31.02	AAAA
ATOM	1820	CD	GLU .	A 23	10.175	37.187	66.350	1.00 31.52	AAAA
ATOM	1821	OE1				37.970	65.497	1.00 31.89	AAAA
ATOM	1822	OE2	GLU .			36.655	66.241		
								1.00 31.04	AAAA
ATOM	1823	С	GLU .			35.622	68.180	1.00 30.79	AAAA
MOTA	1824	0	GLU .			34.465	68.512	1.00 31.05	AAAA
ATOM	1825	N	PHE .	A 23:		36.412	67.553	1.00 30.05	AAAA
MOTA	1826	CA	PHE .	A 23:	16.811	35.920	67.191	1.00 28.94	AAAA
ATOM	1827	CB	PHE .	A 23:	17.632	37.015	66.528	1.00 29.33	AAAA
ATOM	1828	CĠ		A 23:	18.949	36.537	65.972	1.00 28.79	AAAA
ATOM	1829		PHE		18.982	35.585			
					20.152		64.957	1.00 28.93	AAAA
MOTA	1830		PHE			37.067	66.436	1.00 28.55	AAAA
MOTA	1831		PHE A			35.160	64.397	1.00 28.32	AAAA
MOTA	1832	CE2	PHE 2	A 23:	21.376	36.657	65.888	1.00 28.97	AAAA
ATOM	1833	CZ	PHE 2	A 23:	21.397	35.695	64.860	1.00 28.81	AAAA
ATOM	1834	C	PHE		17.559	35.443	68.413	1.00 28.25	AAAA
ATOM	1835	Ō	PHE 2		17.999	34.302	68.485	1.00 27.97	AAAA
ATOM	1836	N	LEU /		17.691	36.329	69.384	1.00 27.93	AAAA
ATOM	1837	CA	LEU Z		18.425	36.003	70.590	1.00 27.93	AAAA
ATOM	1838	CB	LEU A		18.521	37.234	71.484	1.00 28.16	AAAA
MOTA	1839	CG	LEU A	A 232	19.220	38.379	70.747	1.00 27.96	AAAA
ATOM	1840		LEU A		19.203	39.629	71.587	1.00 27.57	AAAA
ATOM	1841		LEU 2		20.639	37.955	70.387	1.00 27.76	
									AAAA
ATOM	1842	С	LEU A		17.815	34.851	71.340	1.00 27.95	AAAA
ATOM	1843	0	LEU A		18.526	34.061	71.941	1.00 27.92	AAAA
ATCM	1844	N	PHE 3		16.495	34.758	71.298	1.00 28.81	AAAA
ATOM	1845	CA	PHE A	A 233	15.786	33.685	71.972	1.00 30.27	AAAA
ATOM	1846	CB	PHE A		14.278	33.837	71.745	1.00 31.51	AAAA
ATOM	1847	CG	PHE A		13.465	32.710	72.308	1.00 32.38	AAAA
ATOM	1948	CDI	PHE A	. 433	13.257	32.599	73.677	1.00 33.66	AAAA

3 COM	1849	CD2	PHE A 2	33	12.928	31.741	71.467	1.00 33.51	AAAA
MOTA			PHE A 2		12.518	31.537	74.201	1.00 35.10	AAAA
MOTA	1850				12.193	30.677	71.975	1.00 34.21	AAAA
ATOM	1851		PHE A 2						AAAA
ATOM	1852	CZ	PHE A 2	:33	11.986	30.572	73.344	1.00 35.23	
	1853		PHE A 2	33	16.219	32.301	71.483	1.00 30.55	AAAA
MOTA			PHE A 2		16.438	31.391	72.280	1.00 30.65	AAAA
ATOM -	1854				_	32.151	70.165	1.00 30.21	AAAA
ATOM	1855	N	ALA A 2	134	16.317				
ATOM	1856	CA	ALA A 2	234	16.698	30.892	69.549	1.00 28.97	AAAA
	1857		ALA A 2		16.398	30.942	68.065	1.00 30.40	AAAA
MOTA					18.169	30.571	69.761	1.00 28.27	AAAA
MOTA	1858		ALA A 2				69.830	1.00 26.69	AAAA
MOTA	1859		ALA A 2		18.564	29.401			
ATOM	1860	N	LEU A 2	235	18.978	31.614	69.855	1.00 27.56	AAAA
	1861		LEU A 2		20.402	31.427	70.055-	1.00 29.17	AAAA
MOTA			LEU A 2		21.126	32.767	69.989	1.00 29.04	AAAA
ATOM	1862						69.378	1.00 28.54	AAAA
ATOM	1863		LEU A 2		22.527	32.757			- AAAA
ATOM	1864	CD1	LEU A 2	235	23.350	33.837	70.058	1.00 27.05	
ATOM	1865		LEU A		23.182	31.408	69.558	1.00 27.21	AAAA
			LEU A		20.637	30.799	71.429	1.00 30.99	AAAA
MOTA	1866				21.159	29.697	71.547	1.00 31.65	AAAA ·
MOTA	1867		LEU A					1.00 31.88	AAAA
ATOM	1868	N	GLU A	236	20.242	31.514	72.471		
ATOM	1869	CA	GLU A	236	20.409	31.042	73.838	1.00 32.99	AAAA
			GLU A		19.689	31.990	74.790	1.00 34.63	AAAA
MOTA	1870				19.980	33.449	74.531	1.00 36.79	AAAA
MOTA	1871	CG	GLU A					1.00 38.99	AAAA
MOTA	1872	CD	GLU A		19.044	34.360	75.294		
ATOM	1873	CE1	GLU A	236	17.803	34.303	75.070	1.00 39.03	AAAA
	1874		GLU A		19.559	35.132	76.126	1.00 41.56	AAAA
ATOM			GLU A		19.806	29.656	73.982	1.00 32.94	AAAA
MOTA	1875	С				28.753	74.595	1.00 31.76	AAAA
ATOM	1876	0	GLU A		20.379			1.00 32.83	AAAA
MOTA	1877	11	LYS A		18.631	29.503	73.399		
ATOM	1878	CA	LYS A	237	17.906	28.256	73.471	1.00 33.59	AAAA
	1879	CB	LYS A		16.504	28.506	72.942	1.00 35.00	AAAA
MOTA	_				15.516	27.436	73.213	1.00 36.69	AAAA
MOTA	1880	CG	LYS A				73.940	1.00 38.53	AAAA
MOTA	1881	CD	LYS A		14.310	28.008			AAAA
ATOM	1882	CE	LYS A	237	14.636	28.331	75.392	1.00 39.27	
ATOM	1883	NZ	LYS A		13.398	28.531	76.204	1.00 39.42	AAAA
			LYS A		18.619	27.129	72.707	1.00 33.14	AAAA
MOTA	1884	С			18.850	26.051	73.260	1.00 33.29	AAAA
MOTA	1885	0	LYS A				71.452	1.00 32.13	AAAA
ATOM	1886	N	SER A		18.985	27.374			AAAA
ATOM	1887	CA	SER A	238	19.671	26.345	70.685	1.00 31.25	
	1888	CB	SER A	238	19.740	26.717	69.194	1.00 30.52	AAAA
MOTA			SER A	238	20.544	27.851	68.970	1.00 29.95	AAAA
MOTA	1889	OG.			21.075	26.064	71.236	1.00 31.21	AAAA
MOTA	1890	С	SER A				71.169	1.00 30.06	AAAA
ATOM	1891	. 0	SER A		21.556	24.929			AAAA
ATOM	1892	N	LEU A	239	21.740	27.077	71.782	1.00 31.71	
	1893	CA	LEU A	239	23.070	26.842	72.351	1.00 33.47	AAAA
MOTA			LEU A		23.698	28.130	72,900	1.00 31.25	AAAA
MOTA	1894				23.988	29.300	71.977	1.00 29.80	AAAA
MOTA	1895	CG	LEU A	239				1.00 29.05	AAAA
MOTA	1896	CD1	LEU A	239	24.589	30.414	72.787	1.00 25.05	AAAA
ATOM	1897		LEU A		24.919	28.903	70.872	1.00 29.36	
	1898	c	LEU A		22.933	25.839	73.502	1.00 35.41	AAAA
ATOM					23.812	25.012	· 73.735	1.00 36.25	AAAA
MOTA	1899	0	LEU A					1.00 37.34	AAAA
MOTA	1900	24	GLU A	240	21.816	25.906		1.00 39.39	AAAA
ATOM	1901	CA	GLU A	240	21.594	25.005			
	1902	CB	GLU A	240	20.281	25.361	76.017	1.00 41.90	AAAA
ATOM			GLU A		20.040			1.00 45.52	AAAA
ATOM	1903				19.665				AAAA
ATOM	1904	CD	GLU A						AAAA
ATOM	1905	OE1	GLU A	240	18.670				AAAA
ATOM	1906	QE2	GLU A	240	20.364	25.559	79.469		
		c	GLU A		21.583			1.00 38.80	AAAA
ATOM	1907				22.224				AAAA
MOTA	1908	၁	GLU A						AAAA
MOTA	1909	74	ILE A		20.847				AAAA
ATCM	1910	CA	ILE A		20.751				
	1911	CB	ILE A		19.912	21.994	71.917	1.00 41.10	AAAA
ATOM					19.850				AAAA
ATOM	1912		ILE A						AAAA
ATOM	1913		ILE, A		18.502				AAAA
ATOM	1914	CD1	ILE A	241	17.641	22.745	70.992	7.00 41.14	
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ATOM	1915	С	ILE .	A 241	22.159	21.424	72.893	1.00 41.66	· AAAA
ATOM	1916	ō	-	A 241	22.445	20.229	73.045	1.00 42.10	AAAA
							72.432	1.00 41.42	AAAA
MOTA	1917	N		A 242	23.026	22.324			
MOTA	1918	CA	VAL .	A 242	24.394	21.977	72.076	1.00 41.23	AAAA
ATOM	1919	CB	VAL .	A 242	25.089	23.146	71.351	1.00 40.40	AAAA
ATOM	1920			A 242	26.556	22.850	71.171	1.00 39.25	AAAA
								1.00 39.79	
ATOM	1921			A 242	24.438	23.384	70.004		AAAA
ATOM	1922	С	VAL .	A 242	25.228	21.604	73.298	1.00 42.67	AAAA
ATOM	1923	0	VAT.	A 242	25.882	20.562	73.316	1.00 41.83	AAAA
		N		A 243	25.198	22.456	74.318	1.00 44.41	AAAA
ATOM	1924								
ATOM	1925	CA	LYS	A 243	25.972	22.215	75.523	1.00 46.51	AAAA
ATOM	1926	CB	LYS	A 243	25.797	23.363	76.522	1.00 47.29	AAAA
ATOM	1927	CG	LVS	A 243	26.820	23.312	77.664	1.00 48.40	AAAA ·
					26.479	24.248	78.823	1.00 48.88	AAAA
MOTA	1928	CD		A 243					•
ATOM	1929	CE	LYS	A 243	26.355	25.691	78.380	1.00 49.62	AAAA
ATOM	1930	NZ	LYS	A 243	25.926	26.576	79.505	1.00 50.11	AAAA
ATOM	1931	С	LYS	A 243	25.639	20.891	76.209	1.00 47.59	AAAA
				A 243	26.537	20.216	76.711	1.00 48.17	AAAA
ATOM	1932	0	בום	A 243					
ATOM	1933	N		A 244		20.517	76.237	1.00 48.86	AAAA
ATOM	1934	CA	GLU	A 244	23.957	19.262	76.877	1.00 50.82	AAAA
ATOM	1935	CB	GLII	A 244	22.432	19.208	77.103	1.00 52.08	AAAA
		CG		A 244	21.818	20.405	77.829	1.00 53.82	AAAA
MOTA	1936								
ATOM	1937	CD		A 244	20.359	20.174	78.230	1.00 54.49	AAAA
ATOM	1938	OE1	GLU	A 244	19.666	21.158	78.595	1.00 55.15	AAAA
ATOM	1939	OE2	GLU	à 244	19.912	19.006	78.200	1.00 54.98	AAAA
	1940	c		A 244	24.338	18.046	76.033	1.00 51.06	AAAA
ATOM									
ATOM	1941	Ō		A 244	24.206	16.905		1.00 51.68	AAAA
MOTA	1942	N	VAL	A 245	. 24.810	18.292	74.820	1.00 51.12	AAAA
ATOM	1943	CA	VAL	A 245	25.149	17.212	73.904	1.00 50.08	AAAA
ATOM	1944	CB		A 245	24.217	17.263	72.677	1.00 50.22	AAAA
					24.615	16.217	71.651	1.00 51.07	AAAA
ATOM	1945			A 245					
MOTA	1946	CG2		A 245	22.794	17.049	73.118	1.00 50.79	AAAA
ATOM	1947	С	VAL	A 245	26.578	17.254	73.397	1.00 49.43	AAAA
ATOM	1948	0	VAI.	A 245	27.101	16.250	72.917	1.00 48.65	AAAA
ATOM	1949	N		A 246	27.220	18.408	73.522	1.00 48.65	AAAA
								1.00 47.97	AAAA
MOTA	1950	CA		A 246	28.556	18.552	72.982		
ATOM	1951	CB	PHE	A 246	28.420	19.212	71.607	1.00 46.45	AAAA
MOTA	1952	CG	PHE	A 246	29.553	18.932	70.671	1.00 45.35	AAAA
ATOM	1953	CD1		A 246	29.841	17.629	70.280	1.00 44.13	AAAA
	1954			A 246	30.291	19.972	70.124	1:00 44.40	AAAA
ATOM									AAAA
ATOM	1955			A 246	30.840	17.370	69.356	1.00 43.95	
ATOM	1956	CE2	PHE	A 246	31.292	19.721	69.197	1.00 43.47	AAAA
MOTA	1957	CZ	PHE	A 246	31.566	18.422	68.811	1.00 44.05	AAAA
ATOM	1958	C		A 246	29.481	19.383	73.860	1.00 48.60	AAAA
					29.132	20.501	74.239	1.00 49.59	AAAA
MOTA	1959	0		A 246					
ATOM	1960	N	GLU	A 247	30.647	18.834	74.198	1.00 48.69	AAAA
ATOM.	1961	CA	GLU	A 247	31.644	19.578	74.977	1.00 49.45	AAAA
ATOM	1962	CB	CLII	A 247	32.174	18.768	76.178	1.00 51.91	AAAA
				A 247	31.257	18.659	77.398	1.00 54.39	AAAA
MOTA	1963	CG							AAAA
MOTA	1964	CD		A 247	29.986	17.845	77.146	1.00 57.34	
ATOM	1965	OE1	GLU	A 247	29.100	18.315	76.393°	1.00 58.48	AAAA
ATOM	1966	OE2	GLU	A 247	29.877	16.725	77.702	1.00 57.95	- AAAA
	1967	C		A 247	32.807	19.903	74.024	1.00 47.39	AAAA
MOTA									AAAA
MOTA	1968	0		A 247	33.742	19.119	73.872	1.00 46.65	
MOTA	1969	Ŋ	PRO	A 248	32.748	21.070	73.371	1.00 46.25	AAAA
ATOM	1970	CD	PRO	A 248	31.651	22.033	73.543	1.00 46.49	AAAA
ATOM	1971	CA		A 248	33.710	21.614	72.411	1.00 45.44	AAAA
								1.00 45.57	AAAA
ATOM	1972	CB		A 248	33.063	22.948	72.017		
MOTA	1973	CG	PRO	A 248	31.604	22.661	72.178	1.00 46.28	AAAA
ATOM	1974	С	PRO	A 248	35.155	21.814	72.880	1.00 44.29	AAAA
	1975	ō		A 248	35.401	22.370	73.947	1.00 44.57	AAAA
MOTA							72:059	1.00 42.21	AAAA
MOTA	1976	N		A 249	36.100	21.364			
ATOM	1977	CA	GLU	A 249	37.522	21.526	72.340	1.00 39.87	AAAA
ATOM	1978	CB	GLU	A 249	38.344	20.460	71.625	1.00 39.58	AAAA
ATOM	1979	CG		A 249	37.960	19.030	71.957	1.00 41.32	AAAA
							71.241	1.00 40.96	AAAA
atom	1980	CD	GLU	A 249	38.825	18.007	11.241	1.00 40.30	anan.
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ATOM	1981	OE1	GLU A	249	38.871	18.017	69.996	1.00 41.55	AAAA
ATOM	1982		GLU A		39.462	17.187	71.926	1.00 42.49	AAAA
ATOM	1983	C	GLU A		37.840	22.873	71.718	1.00 38.81	KAAA
ATOM	1984	Ō	GLU A		38.715	23.617	72.181	1.00 38.27	AAAA
ATOM	1985		VAL A		37.109	23.160	70.644	1.00 36.60	AAAA
ATOM	1986	CA	VAL A		37.242	24.402	69.890	1.00 34.20	AAAA
MOTA	1987	CB	VAL A		38.379	24.321	68.862	1.00 33.73	AAAA
ATOM	1988		VAL A		38.085	23.209	67.864	1.00 33.26	AAAA
ATOM	1989		VAL A		38.546	25.678	68.153	1.00 33.75	AAAA
ATOM	1990	c	VAL A		35.945	24.617	69.130	1.00 31.98	AAAA
MOTA	1991	Ö	VAL A		35.205	23.658	68.904	1.00 32.36	AAAA
ATOM	1992	N	TYR A		35.657	25.863	68.760	1.00 28.65	AAAA
ATOM	1993	CA	TYR A		34.449	26.150	67.991	1.00 26.49	AAAA
ATOM	1994	CB	TYR A	A 251	33.241	26.442	68.906	1.00 24.32	AAAA
ATOM	1995	CG	TYR A		33.193	27.853	69.465	1.00 22.96	AAAA
ATOM	1996	CD1			32.771	28.931	68.668	1.00 22.21	AAAA
ATOM	1997	CEl	TYR A		32.791	30.234	69.151	1.00 21.29	AAAA
ATOM	1998	CD2	TYR A	A 251	33.628	28.124	70.771	1.00 21.47	AAAA
ATOM	1999	CE2	TYR A	A 251	33.651	29.425	71.265	1.00 20.80	AAAA
ATOM	2000	CZ	TYR A	A 251	33.237	30.475	70.449	1.00 20.77	AAAA
ATOM	2001	OH		A 251	33.309	31.768	70.913	1.00 21.41	AAAA
ATOM	2002	С	TYR A	A 251	34.691	27.345	67.092	1.00 24.59	AAAA
ATOM	2003	0	TYR A	A 251	35.504	28.216	67.410	1.00 25.87	AAAA
MOTA	2004	N	LEU A	A 252	33.984	27.374	65.970	1.00 22.49	AAAA
MOTA	2005	CA	LEU 2		34.082	28.482	65.045	1.00 20.96	AAAA
ATOM	2006	CB		A 252	34.523	28.018	63.657	1.00 21.31	AAAA
ATOM	2007	CG		A 252	35.940	27.472	63.556	1.00 21.03	AAAA
ATOM	2008		LEU A		35.947	26.028	63.977	1.00 22.16	AAAA
ATOM	2009	CD2	LEU A		36.440	27.594	62.143	1.00 22.13	AAAA
MOTA	2010	С		A 252	32.731	29.159	64.959	1.00 19.60	AAAA
ATOM	2011	0		A 252	31.689	28.523	65.070	1.00 19.95 1.00 17.95	AAAA AAAA
MOTA	2012	N		A 253	32.748	30.461	64.756	1.00 17.33	AAAA
ATOM	2013	CA		A 253	31.521	31.222	64.675	1.00 17.33	AAAA
ATOM	2014	CB		A 253	31.441	32.142	65.900 66.153	1.00 15.81	AAAA
ATOM	2015	CG		A 253	30.266 28.990	33.070 32.267	66.377	1.00 13.31	AAAA
MOTA	2016		LEU .		30.602	33.925	67.368	1.00 15.83	AAAA
ATOM	2017		LEU .		31.564	32.035	63.386	1.00 16.60	AAAA
ATOM	2018	C		A 253 A 253	32.548	32.722	63.132	1.00 16.40	AAAA
MOTA	2019	0		A 253	30.526	31.936	62.557	1.00 15.88	AAAA
ATOM	2020	N		A 254 A 254	30.507	32.716	61.328	1.00 16.27	AAAA
ATOM	2021 2022	CA CB		A 254	30.045	31.881	60.121	1.00 15.88	AAAA
MOTA	2022	CG		A 254	28.587	32.048	59.734	1.00 18.52	AAAA
ATOM	2023	CD		A 254	28.380	32.935	58.519	1.00 17.54	AAAA
MOTA	2025			A 254	28.714	32.572	57.391	1.00 15.89	AAAA
MOTA MOTA	2026	NF2	GLN	A 254	27.828	34.103	58.750	1 00 18.49	AAAA
ATOM	2027	C	GLN	A 254	29.527	33.825	61.650	1 00 16.91	AAAA
ATOM	2028	ō		A 254	28.450	33.571	62.198	1 00 17.41	AAAA
ATOM	2029	N		A 255	29.911	35.053	61.319	1.00 16.68	AAAA
ATOM	2030	CA		A 255	29.102	36.215	61.619	1.00 16.42	AAAA
ATOM	2031	CB		A 255	29.861	37.080	62.616 [.]		AAAA
ATOM	2032	CG		A 255	30.269	36.301	63.860	1.00 13.90	AAAA
MOTA	2033			A 255	31.494	36.924	64.515	1.00 12.24	AAAA
ATOM	2034			A 255	29.083	36.202	64.774	1.00 12.80	AAAA
MOTA	2035	С		A 255	28.699	37.048	60.404	1.00 18.32	AAAA
MOTA	2036	0	LEU	A 255	29.170	38.177	60.216	1.00 17.59	AAAA
ATOM	2037	N	GLY	A 256	27:813	36.482	59.588	1.00 19.75	AAAA
ATOM	2038	CA		A 256	27.322	37.188	58.422	1.00 20.77	AAAA
ATOM	2039	С	GLY	A 256	26.422	38.302	58.927	1.00 21.73	AAAA
MOTA	2040	0	GLY	A 256	25.642	30.096	59.857	1.00 21.38	AAAA
ATOM	2041	N	THR	A 257	26.528	39.485	58.325	1.00 22.82	AAAA
ATOM	2042	CA	THR	A 257	25.721	40.622	58.746	1.00 23.85	AAAA
ATOM	2043	CB		A 257	26.460	41.968	58.549	1.00 23.99	AAAA
ATOM	2044			A 257	26.729	42.169	57.153	1.00 25.54	AAAA
ATOM	2045	CG2		A 257	27.780	41.985	59.329	1.00 24.07	AAAA
ATOM	2046	С	THR	A 257	24.438	40.691	57.948	1.00 24.97	AAAA
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ATOM	2047	0	THR	L	257	23.692	41.672	58.048	1.00 25.84	AAAA
ATOM	2048	N	ASP	Α	258	24.152	39.665	57.154	1.00 25.18	AAAA
ATOM	2049	CA	ASP	2	258	22.935	39.753	56.379	1.00 26.18	AAAA
ATOM	2050	CB	ASP	À	258	22.950	38.830	55.149	1.00 25.52	AAAA
ATOM	2051	CG	ASP	3	258	23.211	37.392	55.494	1.00 26.33	AAAA
ATOM	2052	С	ASP	A	258	21.649	39:574	57.178	1.00 26.74	AAAA
	2053.		ASP		250	20.571	39.823	56.643	1.00 26.57	
ATOM	2003.	0	ΨZħ	A	258	20.5/1	39.623	30.043	1.00 20.57	AAAA
ATOM	2054	OD1	ASP	Α	258	23.014	37.029	56.675	1.00 26.85	AAAA
ATOM	2055	OD2	ASP	Α	258	23.585	36.623	54.572	1.00 24.06	AAAA
ATOM	2056	N	PRO	3	259	21.727	39.114	58.449	1.00 26.95	AAAA
MOTA	2057	CD	PRO	Α	259 -	22.834	38.589	59.271	1.00 27.34	AAAA
ATOM	2058	CA	PRO	A	250	20.467	38.976	59.190	1.00 27.05	AAAA
ATOM	2059	CB	PRO	Α	259	20.886	38.186	60.425	1.00 26.38	AAAA
	2060	CG	PRO			22.247	38.718	60.669	1.00 27.84	AAAA
MOTA		CG								
ATOM	2061	С	PRO	Α	259	19.914	40.365	59.543	1.00 27.32	AAAA
						18.739	40.510	59.871-	1.00 27.29	
ATOM	2062	0	PRO	А	239					AAAA
ATOM	2063	N	LEU	А	260	20.771	41.383	59.452	1.00 26.97	AAAA
ATOM	2064	CA	LEU	A	260	20.389	42.763	59.752	1.00 26.74	AAAA
MOTA	2065	CB	LEU	Α	260	21.621	43.680	59.680	1.00 27.21	AAAA
								60.709		
ATOM	2066	CG	LEU			22.732	43.465	00.709	1.00 27.01	AAAA
ATOM	2067	CD1	LEU	Α	260	23.889	44.380	60.408	1.00 25.51	AAAA
ATOM	2068	CDZ	LEU			22.189	43.718	62.112	1.00 27.39	AAAA
ATOM	2069	С	LEH	Δ	260	19.295	43.351	58.865	1.00 26.47	AAAA
ATOM	2070	0	LEU	Α	260	19.278	43.137	57.649	1.00 26.72	AAAA
ATOM	2071	N	LEU	2	261	18.413	44.126	59.494	1.00 26.32	AAAA
ATOM	2072	CA	LEU	A	261	17.283	44.808	58.846	1.00 27.20	AAAA
MOTA	2073	CB	। स्या	Δ	261	16.732	45.885	59.780	1.00 28.71	AAAA
ATOM	2074	CG	LEU	Α	261	15.644	46.789	59.190	1.00 29.24	AAAA
ATOM	2075	CD1	LEU	Δ	261	14.433	45.954	58.883	1.00 29.44	AAAA
- MOTA	2076	CD2	LEU	Α	261	15.284	47.906	60.162	1.00 29.72	AAAA
ATOM	2077	С	T ETT	2	261	17.506	45.454	57.473	1.00 27.90	AAAA
ATOM	2078	0	LEU	A	261	16.675	45.294	56.577	1.00 28.21	AAAA
ATOM	2079	N	CTII	ħ	262	18.597	46.202	57.310	1.00 27.61	AAAA
ATOM	2080	CA	GLU	Α	262 ·	18.887	46.877	56.043	1.00 26.92	AAAA
ATOM	2081	CB	GLU	a	262	19.949	47.955	56.241	1.00 25.85	AAAA
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ATOM	2082	CG	GLU	Α	262	19.549	49.119	57.117	1.00 25.36	AAAA
	2083	CD	CTII	7	262	19.552	48.787	58.580	1.00 25.78	AAAA
MOTA										
ATOM	2084	OE1	GLU	À	262	19.859	47.631	58.938	1.00 24.64	AAAA
	2085	OE2	GLU	70.	262	19.255	49.694	59.381	1.00 25.82	AAAA
ATOM										
ATOM	2086	С	GLU	Α	262	19.346	45.995	54.882	1.00 28.79	AAAA
	2087				262	19.354	46.439	53.724	1.00 28.70	AAAA
ATOM		0								
MOTA	2088	N	ASP	Α	263	19.743	44.758	55.179	1.00 29.57	AAAA
ATOM	2089	CA			263	20.230	43.853	54.145	1.00 28.99	AAAA
MOTA	2090	CB	ASP	Α	263	21.160	42.802	54.760	1.00 27.89	AAAA
ATOM	2091	CG	ASP	3	263	21.986	42.062	53.714	1.00 29.02	· AAAA
MOTA	2092	OD1	ASP	Α	263	23.194	41.863	53.95 7	1.00 28.06	AAAA
ATOM	2093	OD2	ASP	3	263	21.438	41.663	52.660	1.00 28.80	AAAA
MOTA	2094	C	ASP	Α	263	19.066	43.197	53.431	1.00 29.73	AAAA
ATOM	2395	0			263	18.258	42.510	54.043	1.00 29.15	AAAA
ATOM	2096	·N	TYR	Α	264	19.002	43.416	52.122	1.00 31.25	AAAA
	2097	CA			264	17.925	42.888	51.306	1.00 32.43	AAAA
ATOM										
ATOM	2098	CB	TYR	Α	264	17.913	43.558	49.938	1.00 34.53	AAAA
		CG			264	17.627	45.038	49.997	1.00 38.21	AAAA
MOTA	2099									
ATOM	2100	CD1	TYR	Α	264	18.664	45.968	49.983	1.00 39.87	AAAA
							47.335	50.068	1.00 41.74	AAAA
ATOM	2101		TYR			18.409				
ATOM	2102	CD2	TYR	Α	264	16.316	45.511	50.103	1.00 40.10	AAAA
						16.044	46.877	50.191	1.00 41.50	AAAA
ATOM	2103		TYR							
MOTA	2104	CZ	TYR	À	264	17.095	47.786	50.170	1.00 42.75	AAAA
						16.838	49.147	50.231	1.00 44.65	AAAA
MOTA	2205	OH			264					
ATOM	2106	С	TYR	Α	264	17.897	41.385	51.135	1.00 32.50	AAAA
										AAAA
ATOM	2107	0			264	16.819	40.816	50.968	1.00 32.49	
ATOM	2108	:1	LEU	A	265	19.064	40.740	51.171	1.00 32.64	AAAA
						19.122	39.281	51.036	1.00 31.92	AAAA
atom	2109	CA			265					
ATOM	2110	CB	LEU	Α	265	20.525	38.823	50.617	1.00 32.75	aaaa
					265	20.808	39.010	49.127	1.00 32.95	AAAA
ATOM	2111	CG								
ATOM	2112	CD1	LEU	Α	265	22.213	38.588	48.771	1.00 31.59	AAAA
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ATOM	2113	CD2	LEU A	265	19.803	38.166	48.361	1.00 34.62	AAAA
ATOM	2114		LEU A		18.693	38.540	52.296	1.00 30.33	AAAA
ATOM	2115	-	LEU A		19.024	37.375	52.484	1.00 30.30	AAAA
ATOM	2116	N	SER A		17.945	39.230	53.147	1.00 29.23	AAAA
ATOM	2117		SER A		17.434	38.649	54.371	1.00 29.72	AAAA
ATOM -	2118		SER A		18.398	38.894	55.519	1.00 32.09	AAAA
	2119	OG	SER A		17.728	38.810	56.771	1.00 33.43	AAAA
MOTA		C	SER A		16.115	39.290	54.698	1.00 28.71	ÄAAA
MOTA	2120	0	SER A		15.924	40.473	54.444	1.00 29.67	AAAA
ATOM	2121		LYS A		15.209	38.517	55.276	1.00 27.82	AAAA
MOTA	2122 2123		LYS A		13.908	39.045	55.654	1.00 27.56	AAAA
ATOM			LYS A		12.821	38.076	55.222	1.00 28.75	AAAA
MOTA	2124		LYS A		12.733	37.922	53.718		AAAA
ATOM .	2125		LYS A		12.343	39.223	53.053	1.00 30.13	AAAA
ATOM	2126		LYS A		12.303	39.036	51.546	1.00 31.86	AAAA
ATOM	2127		LYS A		11.796	40.252	50.843	1.00 33.92	- AAAA
MOTA	2128	NZ C	LYS A		13.800	39.327	57.152	1.00 27.18	AAAA
MOTA	2129	0	LYS A		12.707	39.591	57.665	1.00 27.18	AAAA
ATOM	2130		PHE A		14.944	39.267	57.836	1.00 26.12	AAAA
ATOM	2131 2132	N CA	PHE A		15.048	39.532	59.271	1.00 25.72	AAAA
ATOM	2132	CB	PHE A		16.272	38.830	59.856	1.00 24.94	AAAA
ATOM		CG	PHE A		16.167	37.334	59.896	1.00 25.07	AAAA
MOTA	2134		PHE A		17.271	36.565	60.267	1.00 24.56	
ATOM	2135		PHE A		14.955	36.687	59.629	1.00 23.76	AAAA
MOTA	2136		PHE A		17.174	35.169	60.384	1.00 23.71	AAAA
MOTA	2137 2138		PHE A		14.850	35.303	59.739	1.00 23.86	AAAA
MOTA	2139	CZ	PHE A		15.966	34.542	60.121	1.00 23.68	AAAA
ATOM	2139	C	PHE A		15.190	41.030	59.513	1.00 25.77	AAAA
MOTA	2141	0	PHE A		15.811	41.734	58.726	1.00 25.81	AAAA
MOTA	2141	N	ASN A		14.606	41.524	60.595	1.00 26.02	AAAA
ATOM	2142	CA	ASN A		14.718	42.943	60.890	1.00 26.58	· AAAA
MOTA	2143	CB	ASN A		13.330	43.584	61.058	1.00 25.47	AAAA
MOTA	2145	CG	ASN A		12.379	43.252,	59.906	1.00 25.37	AAAA
MOTA MOTA	2146		ASN A		12.761	43.260	58.734	1.00 23.82	AAAA
ATOM	2147		ASN A		11.123	42.985	60.245	1.00 24.03	AAAA
ATOM	2148	C	ASN A		15.540	43.112	62.169	1.00 26.82	AAAA
ATOM	2149	ò	ASN A		15.089	43.715	63.150	1.00 27.98	AAAA
ATOM	2150	N	LEU A		16.744	42.559	62.149	1.00 26.07	AAAA
ATOM	2151	CA	LEU A		17.639	42.642	63.289	1.00 25.97	AAAA
ATOM	2152	CB	LEU A		18.634	41.479	63.265	1.00 23.76	AAAA
ATOM	2153	CG	LEU A		18.048	40.070	63.225	1.00 23.36	AAAA
ATOM	2154		LEU A		19.115	39.090	63.710	1.00 21.90	AAAA
ATOM	2155		LEU A		16.824	39.971	64.122	1.00 22.05	AAAA
ATOM	2156	С	LEU A		18.420	43.961	63.360	1.00 27.13	AAAA
ATOM	2157	ō	LEU A		18.475	44.750	62.399	1.00 25.99	AAAA
ATOM	2158	N	SER A	271	19.038	44.176	64.517	1.00 27.97	AAAA
ATOM	2159	CA	SER A	. 271	19.832	45.370	64.767	1.00 27.95	AAAA
ATOM	2160	CB	SER A	271	19.235	46.137	65.943	1.00 27.32	AAAA
ATOM	2161	OG	SER A		19.184	45.297	67.089	1.00 27.90	AAAA
ATOM	2162	С	SER A		21.276	44.987	65.084	1.00 28.15	AAAA
ATOM	2163	0	SER A	271	21.574	43.832	65.401	1.00 26.99	AAAA
ATOM	2164	N	ASN A		22.156	45.980	64.979	1.00 28.96	AAAA
ATOM	2165	CA	ASN A	272	23.590	45.861	65.266	1.00 29.54	AAAA
ATOM	2166	CB	ASN A	272	24.247	47.243	65.223	1.00 30.96	AAAA
ATOM	2167	CG	ASN A	272	24.647	47.640	63.850	1.00 31.20	AAAA
MOTA	2168		ASN A		24.960	48.794	63.594	1.00 31.73	AAAA
ATOM	2169	ND2	ASN A		24.670	46.674	62.948	1.00 31.93	AAAA
ATOM	2170	С	ASN A			45.309	66.645	1.00 29.63	AAAA
MOTA	2171	0	ASN A		24.574	44.361	66.843	1.00 29.85	AAAA
MOTA	2172	N	VAL A		23.180	45.959	67.600	1.00 29.77	AAAA
ATOM	2173	CA	VAL A	273	23.290	45.602	68.994	1.00 30.89	AAAA
ATOM	2174	CB	VAL A	273	22.436	46.576	69.816	1.00 31.61	AAAA
ATOM	2175	CG1	VAL A	273	22.716	46.403	71.293	1.00 33.17	AAAA
ATOM	2176	CG2	VAL A	A 273	22.740	47.998	69.372	1.00 31.82	AAAA
ATOM	2177	С	VAL A	273	22.883	44.144	69.266	1.00 30.74	AAAA
ATOM	2178	0	VAL A	a 273	23.550	43.431	70.022	1.00 31.23	AAAA .

				224	21.785	43.706	68.659	1.00 30.25	AAAA
ATOM	2179	N	ALA A					1.00 29.87	AAAA
MOTA	2180		ALA A		21.327	42.333	68.840		
ATOM	2181	CB	ALA A		20.005	42.119	68.112	1.00 29.64	ÀAAA
ATOM	2182	С	ALA A	274	22.395	41.438	68.247	1.00 29.35	AAAA
ATOM	2183	0	ALA A	274	22.707	40.373	68.778	1.00 29.18	AAAA
ATOM	2184	N	PHE A	275	22.946	41.893	67.127	1.00 29.30	AAAA
ATOM	2185	CA	PHE A		23.991	41.170	66.428	1.00 28.91	AAAA
	2186	CB	PHE A		24.375	41.909	65.150	1.00 28.77	AAAA
ATOM		CG	PHE A		25.354	41.170	64.308	1.00 28.08	AAAA
ATOM	2187				25.015	39.954	63.740	1.00 28.92	AÁAA
MOTA	2188		PHE A				64.077	1.00 29.48	AAAA
ATOM	2189		PHE A		26.621	41.684		1.00 29.20	AAAA
MOTA	2190		PHE A		25.928	39.259	62.945		
MOTA	2191		PHE A		27.546	40.988	63.279	1.00 29.24	AAAA
MOTA	2192	CZ	PHE A	275	27.193	39.779	62.716	1.00 28.30	AAAA
ATOM	2193	С	PHE A	275	25.196	41.058	67.351	1.00 27.64	AAAA
ATOM	2194	0	PHE A	275	25.728	39.975	67.558	1.00 28.65	AAAA
MOTA	2195	N	LEU A	276	25.606	42.189	67.902	1.00 26.81	AAAA
ATOM	2196	CA	LEU A	276	26.732	42.260	68.831	1.00 27.38	AAAA
ATOM	2197	CB	LEU A		26.878	43.700	69.353	1.00 27.53	AAAA
ATOM	2198	CG	LEU A		28.202	44.213	69.928	1.00 26.37	AAAA
	2199		LEU A		27.923	45.488	70.721	1.00 25.71	AAAA
MOTA			LEU A		28.842	43.189	70.827	1.00 27.06	AAAA
ATOM	2200				26.486	41.317	70.021	1.00 26.49	AAAA
MOTA	2201	C	LEU A				70.021	1.00 25.26	AAAA
ATOM	2202	0	LEU A		27.387	40.603		1.00 23.20	AAAA
ATOM	2203	N	LYS A		25.257	41.322	70.524		AAAA
MOTA	2204	CA	LYS A		24.894	40.468	71.642	1.00 28.63	
ATOM	2205	CB	LYS A		23.542	40.862	72.223	1.00 30.63	AAAA
ATOM	2206	CG	LYS A		23.590	42.029	73.153	1.00 33.14	AAAA .
ATOM	2207	CD	LYS A	277	22.599	41.791	74.268	1.00 34.94	AAAA
ATOM	2208	CE	LYS A	277	22.964	40.519	75.029	1.00 36.17	AAAA
ATOM	2209	NZ	LYS A	277	21.979	40.194	76.104	1.00 38.64	AAAA
ATOM	2210	С	LYS A		24.846	38.997	71.297	1.00 28.53	AAAA
MOTA	2211	Ō	LYS A		25.118	38.152	72.146	1.00 28.45	AAAA
ATOM	2212	N	ALA A		24.466	38.681	70.064	1.00 28.47	AAAA
ATOM	2213	CA	ALA A		24.404	37.280	69.656	1.00 27.66	AAAA
	2214	CB	ALA A		23.941	37.181	68.201	1.00 26.40	AAAA
MOTA	2215	C	ALA A		25.833	36.754	69.820	1.00 26.63	AAAA
MOTA			ALA A		26.081	35.644	70.317	1.00 25.19	AAAA
MOTA	2216	0			26.764	37.616	69.427	1.00 26.50	AAAA
ATOM	2217	N	PHE A		28.181	37.345	69.481	1.00 25.83	AAAA
ATOM	2218	CA	PHE A			38.521	68.869	1.00 26.35	AAAA
MOTA	2219	CB	PHE A		28.934			1.00 27.92	AAAA
MOTA	2220	CG	PHE A		30.413	38.319	68.796	1.00 27.32	AAAA
MOTA	2221		PHE A		30.949	37.256	68.072		
MOTA	2222		PHE A		31.280	39.201	69.434	1.00 28.33	AAAA
ATOM	2223		PHE A		32.330	3 7 .078	67.983	1.00 28.22	AAAA
MOTA	2224	CE2	PHE A	279	32.666	39.030	69.349	1.00 28.11	AAAA
ATOM	2225	CZ	PHE A		33.185	37.968	68.622	1.00 28.21	AAAA
ATOM	2226	С	PHE A		28.665	37.118	70.901	1.00 25.47	AAAA
MOTA	2227	ō	PHE A		29.284	36.091	71.202	1.00 24.32	AAAA
ATOM	2228	N	ASN A		28.382	38.075	71.778	1.00 25.12	AAAA
MOTA	2229	CA	ASN A		28.841	37.944	73.147	1.00 25.05	AAAA
	2230	CB	ASN A		28.708	39.269	73.887	1.00 24.42	AAAA
MOTA			ASN A		29.683	40.300	73.364	1.00 24.56	AAAA
ATOM	2231	CG			30.841	39.980	73.080	1.00 23.24	AAAA
ATOM	2232		ASN A			41.543	73.249	1.00 24.59	AAAA
MOTA	2233		ASN A		29.233			1.00 24.79	AAAA
ATCM	2234	С	ASN A	280	28.213	36.814	73.925	1.00 24.75	AAAA
MOTA	2235	0	ASN A		28.828	36.272	74.825		
MOTA	2236	N	ILE A	281	26.998	36.444	73.565	1.00 24.87	AAAA
ATOM	2237	CA	ILE A		26.332	35.337	74.220	1.00 24.80	AAAA
ATOM	2238	CB	ILE A		24.866	35.252	73.780	1.00 24.40	AAAA
MOTA	2239		ILE A		24.297	33.90 7	74.124	1.00 25.03	AAAA
ATOM	2240		ILE A		24.076	36.386	74.424	1.00 24.70	AAAA
ATOM	2241	נת	ILE A	281	22.613	36.379	74.069	1.00 26.49	AAAA
	2242	C	ILE A	281	27.044	34.027	73.884	1.00 25.21	AAAA
ATOM	2243	0	ILE A		27.220	33.170	74.750	1.00 24.97	AAAA
ATOM			VAL A	282	27.440	33.866	72.620	1.00 25.98	AAAA
ATCM	2244	N	AWP W	202	27.330	55.500			

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ATOM	2245	CA	VAL A	282	28.150	32.656	72.193	1.00 25.15	አ ልልፉ
			VAL A		28.451	32.666	70.677	1.00 23.83	AAAA
MOTA	2246				29.315	31.470	70.311	1.00 23.58	AAAA
MOTA	2247		VAL A				69.899	1.00 22.73	AAAA
ATOM	2248		VAL A		27.173	32.633			
ATOM	2249	С	VAL A	282	29.478	32.553	72.936	1.00 25.73	AAAA
ATOM	2250	0	VAL A	282	29.928	31.457	73.275	1.00 25.31	AAAA
ATOM	2251	N	ARG A	283	30.100	33.702	73.176	1.00 26.90	AAAA
		CA	ARG A		31.372	33.760	73.885	1.00 28.87	AAAA
MOTA	2252				32.027	35.131	73.684	1.00 28.16	AAAA
MOTA	2253	CB	ARG A					1.00 27.22	AAAA
ATOM	2254	CG	ARG A		32.364	35.440	72.240		
ATOM	2255	CD	ARG A	283	32.821	36.862	72.098	1.00 27.08	AAAA
ATOM	2256	NE	ARG A	283	34.035	37.116	72.854	1.00 26.73	AAAA
	2257	cz	ARG A		34.514	38.327	73.091	1.00 26.82	AAAA
ATOM			ARG A		33.873	39.384	72.626	1.00 27.36	AAAA
MOTA	2258				35.622	38.484	73.798	1.00 26.95	AAAA
MOTA	2259		ARG A				75.376	1.00 30.71	AAAA
MOTA	2260	С	ARG A		31.183	33.494			
MOTA	2261	0	ARG A	. 283	32.086	32.981	76.027	1.00 30.68	AAAA
ATOM	2262	N	GLU A	284	30.014	33.842	75.911	1.00 32.71	AAAA
ATOM	2263	CA	GLU A	284	29.735	33.623	77.323	1.00 35.53	AAAA
	2264	CB	GLU A		28.482	34.391	77.751	1.00 37.39	AAAA
ATOM			GLU A		28.538	35.854	77.392	1.00 41.73	AAAA
ATOM	2265	CG			27.272	36.631	77.754	1.00 45.27	AAAA
ATOM	2266	CD	GLU A						AAAA
MOTA	2267	OE1	GLU A	284	26.151	36.078	77.610	1.00 46.66	
ATOM	2268	OE2	GLU A	284	27.405	37.81 7	78.148	1.00 46.94	AAAA
ATOM	2269	С	GLU A	284	29.524	32.133	77.564	1.00 36.25	AAAA
	2270	ō	GLU A		29.920	31.593	78.601	1.00 37.85	AAAA
MOTA			VAL A		28.916	31.464	76.591	1.00 35.24	AAAA
MOTA	2271	N			00 677	30.041	76.708	1.00 33.88	AAAA
MOTA	2272	CA	VAL A					1.00 33.71	AAAA
MOTA	2273	CB	VAL A		27.505	29.619	75.737		
ATOM	2274	CG1	VAL A	285	27.201	28.137	75.888	1.00 32.59	AAAA
ATOM	2275	CG2	VAL A	285	26.254	30.457	76.001	1.00 32.77	AAAA
ATOM	2276	C	VAL A	285	29.847	29.149	76.456	1.00 33.47	AAAA
	2277	Ö	VAL A		30.140	28.262	77.257	1.00 34.23	AAAA
ATOM		N	PHE A		30.568	29.389	75.364	1.00 32.34	AAAA
ATOM	2278				31.706	28.535	75.036	1.00 29.92	AAAA
MOTA	2279	CA	PHE A				73.635	1.00 29.77	AAAA
ATOM	2280	CB	PHE A		31.533	27.960		1.00 28.64	AAAA
ATOM	2281	CG	PHE A	A 286	30.267	27.179	73.444		
ATOM	2282	CD1	PHE A	286	29.152	27.772	72.863	1.00 28.75	AAAA
ATOM	2283	CD2	PHE A	286	30.197	25.837	73.82 7	1.00 28.55	AAAA
MOTA	2284		PHE A		27.983	27.039	72.660	1.00 29.04	AAAA
	2285		PHE 2		29.037	25.095	73.629	1.00 28.19	AAAA
ATOM					27.929	25.694	73.045	1.00 28.73	AAAA
ATOM	2286	CZ	PHE A			29.113	75.132	1.00 29.13	AAAA
MOTA	2287	С		A 286	33.106			1.00 28.54	AAAA
MOTA	2288	0		A 286	34.073	28.436	74.760	1.00 28.42	AAAA
ATOM	2289	N	GLY A	A 287	33.224	30.341	75.637		
ATOM	2290	CA	GLY 2	A 287	34.525	30.987	75.744	1.00 27.07	AAAA
ATOM	2291	С	GI.Y	A 287	34.932	31.611	74.419	1.00 26.64	AAAA
	2292	ŏ		A 287	34.088	32.042	73.649	1.00 27.13	AAAA
MOTA				A 288	36.227	31.665	74.146	1.00 27.20	AAAA
MOTA	2293	N					72.900	1.00 27.52	AAAA
ATOM	2294	CA		A 288	36.719	32.238		1.00 28.18	AAAA
MOTA	2295	CB		A 288	38.073	32.923	73.108		
ATOM	2296	CG	GLU A	3 288	38.036	34.177	73.959	1.00 28.88	AAAA
ATOM	2297	CD		A 288 ·	37.329	35.330	73.279	1.00 29.58	AAAA
	2298		GLU 2		37.807	35.813	72.243	1.00 29.94	AAAA
MOTA					36.281	35.761	73.782	1.00 31.89	AAAA
MOTA	2299		GLU			31.158	71.843	1.00 27.44	AAAA
MOTA	2300	С		A 288	36.877			1.00 27.87	AAAA
ATOM .	2301	0		A 288	37.169	30.007	72.162	1.00 27.07	AAAA
MOTA	2302	N	GLY A	A 289	36.663	31.547	70.589	1.00 26.55	
ATOM	2303	CA		A 289	36.795	30.638	69.466	1.00 25.25	AAAA
	2304	C		A 289	37.285		68.254	1.00 24.53	AAAA
MOTA					37.635				AAAA
ATOM	2305	0		A 289					AAAA
MOTA	2306	N		A 290	37.320		65 053	1.00 23.76	: AAAA
ATOM	2307	CA		A 290	37.756				AAAA
ATOM	2308	CB		A 290	38.288				
ATOM	2309		VAL		38.835	31.012	63.596	1.00 22.73	AAAA
	2310		VAL		39.375	29.506			AAAA
MOTA	2310		. VAL	250	3 3 •= • =		•		•

ATOM	2311	С	VAL A	290	36.536	32.122	65.277	1.00 23.90	AAAA
			VAL A		35.497	31.502	65.100	1.00 25.15	AAAA
ATOM	2312	Ο,	_						
ATOM	2313	N	TÝR A	291	36.662	33.415	64.976	1.00 23.09	AAAA
ATOM	2314	CA	TYR A	291	35.544	34.211	64.446	1.00 21.41	AAAA
							65.193	1.00 20.57	AAAA
MOTA	2315	CB	TYR A	291	35.472	35.540			
ATOM	2316	CG	TYR A	291	35.511	35:346	66.677	1.00 19.87	AAAA
	2317		TYR A	201	36.596	35.782	67.432	1.00 20.86	AAAA
ATOM	-								
ATOM	2318	CEl	TYR A	291	36.677	35.513	68.793	1.00 21.47	АААА
ATOM	2319	CD2	TYR A	291	34.509	34:647	67.318	1.00 20.90	AAAA
						34.372	68.675	1.00 21.90	AAAA
ATOM	2320	CE2	TYR A		34.579				
MOTA	2321	CZ	TYR A	291	. 35.661	34.800	69.403	1.00 21.25	AAAA
	2322	OH	TYR A	291	35.737	34.469	70.730	1.00 23.75	AAAA
MOTA								1.00 21.25	AAAA
MOTA	2323	С	TYR A		35.607	34.483	62.946		
MOTA	2324	0	TYR A	291	36.573	35.077	62.451	1.00 21.10	AAAA
	2325	N	LEU A	292	34.557	34.084	62.231	1.00 20.92	AAAA
MOTA									AAAA
ATOM	2326	CA	LEU A	292	34.518	34.260	60.779-	1.00 20.92	
ATOM	2327	CB	LEU A	292	34.235	32.916	60.080	1.00 19.93	AAAA
	2328	CG	LEU A	292	35.104	31.688	60.399	1.00 17.31	AAAA
ATOM								1.00 16.05	AAAA
ATOM	2329		LEU A		34.685	30.515	59.528		
MOTA	2330	CD2	LEU A	292	36.552	32.000	60.163	1.00 18.07	AAAA
	2331	С	LEU A	292	33.515	35.288	60.283	1.00 21.12	AAAA
ATOM						35.741		1.00 20.70	AAAA
ATOM	2332	0	LEU A		32.652		61.020		
ATOM	2333	N	GLY A	293	33.660	35.660	59.017	1.00 21.74	AAAA
	2334	CA	GLY A	293	32.752	36.612	58.410	1.00 21.48	AAAA
ATOM									AAAA
MOTA	2335	Ç	GLY A		31.612	35.856	57.770	1.00 21.65	
MOTA	2336	0	GLY A	293	31.237	34.790	58.235	1.00 22.25	AAAA
ATOM	2337	N	GLY A	294	31.060	36.392	56.691	1.00 22.66	AAAA
							56.034	1.00 23.61	AAAA
MOTA	2338	CA	GLY A	294	29.957	35.714			
ATOM	2339	С	GLY A	294	29.180	36.653	55.146	1.00 24.56	AAAA
ATOM -	2340	0	GLY A	294	29.679	37.727	54.790	1.00 25.54	AAAA
					27.956	36.265	54.794	1.00 24.06	AAAA
MOTA	2341	N	GLY A						
MOTA	2342	CA	GLY A	295	27.139	37.093	53.927	1.00 22.78	AAAA
ATOM	2343	С	GLY A	295	26.902	38.479	54.483	1.00 23.11	AAAA
					26.870	38.676	55.696	1.00 22.87	AAAA
ATOM	2344	0	GLY A						
ATOM	2345	N	GLY A	296	26.733	39.442	53.584	1.00 22.78	AAAA
ATOM	2346	CA	GLY A	296	26.497	40.813	53.993	1.00 23.44	AAAA
			GLY A		26.471	41.618	52.718	1.00 23.72	AAAA
ATOM	2347	C							AAAA
ATOM	2348	0	GLY A		27.474	41.661	52.004	1.00 23.73	
ATOM	2349	N	TYR A	297	25.356	42.280	52.425	1.00 23.41	AAAA
	2350	CA	TYR A		25.282	42.991	51.163	1.00 22.71	AAAA
ATOM								1.00 21.55	AAAA
MOTA	2351	CB	TYR A		24.252	42.294	50.296		
MOTA	2352	CG	TYR A	297	24.496	40.809	50.317	1.00 21.93	AAAA
MOTA	2353	CD3	TYR A	297	24.036	40.016	51.375	1.00 20.95	AAAA
						38.678	51.481	1.00 21.59	AAAA
MOTA	2354	CE1			24.400				
MOTA	2355	CD2	TYR A	297	25.320	40.217	49.358	1.00 21.71	AAAA
ATOM	2356	CE2	TYR A	297	25.688	38.900	49.451	1.00 21.99	AAAA
			TYR A		25.242	38.127	50.511	1.00 22.18	AAAA
MOTA	2357	CZ							AAAA
MOTA	2358	ОН	TYR A		25.721	36.841	50.615	1.00 21.35	
ATOM	2359	С	TYR A	297	25.042	44.485	51.225	1.00 22.90	AAAA
			TYR A		25.106	45.172	50.203	1.00 23.17	AAAA
MOTA	2360	0							AAAA
ATOM	2361	N	HIS A		24.772	44.989	52.417		
ATOM	2362	CA	HIS A	298	24.572	46.415	52.566	1.00 24.27	AAAA
	2363	CB	HIS A	298	23.468	46.726	53.556	1.00 23.17	AAAA
MOTA								1.00 23.20	AAAA
ATOM	2364	CG	HIS A		23.097		53.572		
ATOM	2365	CD2	HIS A	298	23.588	49.201	54.287	1.00 24.25	AAAA
	2366		HIS A		22.199	48.708	52.680	1.00 23.14	AAAA
ATOM									AAAA
ATOM	2367		HIS A		22.151	50.017	52.848	1.00 23.31	
ATOM	2368	NE2	HIS A	298	22.986	50.342	53.814	1.00 23.62	AAAA
	2369	С	HIS A		25.886	46.976	53.106	1.00 25.17	AAAA
MOTA								1.00 24.47	AAAA
ATOM	2370	0	HIS A		26.282	46.687	54.239		
ATOM	2371	N	PRO A	299	26.563	47.818	52.316	1.00 26.37	AAAA
	2372	פס	PRO A		26.178	48.372	51.006	1.00 27.01	AAAA
ATOM							52.752	1.00 27.31	AAAA
MOTA	2373	CA	PRO A		27.840	48.394			
ATOM	2374	CB	PRO A		28.156	49.383	51.630	1.00 27.04	AAAA
ATOM	2375	CG	PRO A	299	26.743	49.764	51.120	1.00 27.57	AAAA
	_				27.824	49.037	54.149	1.00 27.77	AAAA
ATCM	2376	С	PRO A	477	21.044	43.03/	24.143	1.00 41.11	
									•

3.00M	2377	0	PRO A	299	2	8.755	48.826	54.939	1.00	28.04	AAAA
MOTA		N	TYR A	300		6.769	49.794	54.452	1.00	27.04	AAAA
MOTA	2378					6.629	50.477	55.740		27.59	AAAA
MOTA	2379		TYR A			5.425	51.437	55.700		30.57	AAAA
MOTA	2380		TYR A			5.516	52.599	54.718		32.91	AAAA
MOTA	2381		TYR · A					53.491	1 00	33.45	AAAA
ATOM -	2382	CD1	TYR A	300		6.181	52.464			33.91	AAAA
MOTA	2383	CEl	TYR A	300		6.160	53.487	52.538		34.19	AAAA
MOTA	2384		TYR A			24.837	53.801	54.969			AAAA
ATOM	2385	CE2	TYR A	300	2	24.809	54.830			34.64	
ATOM	2386	CZ	TYR A		2	25.468	54.657	52.807		34.56	AAAA
MOTA	2387	ОН	TYR A	300	2	25.389	55.630	51.844		36.05	AAAA
ATOM	2388	C	TYR A	300	2	26.454	49.538	56.936		26.48	AAAA
•	2389	Ö	TYR A	300		27.073	49.726	57.979 -	1.00	25.81	AAAA
MOTA	2390	N	ALA A			25.581	48.547	56.791		25.41	AAAA
MOTA			ALA A			25.328	47.606	57.865	1.00	24.64	AAAA
ATOM	2391	CA	ALA A			24.164	46.731	57.511	1.00	25.32	-AAAA
MOTA	2392	CB				26.568	46.775	58.067		25.53	AAAA
MOTA	2393	C,	ALA A			27.030	46.567	59.194		26.39	AAAA
MOTA	2394	0	ALA A			27.108	46.304	56.950		25.83	AAAA
MOTA	2395	N	LEU A				45.500	56.926		26.32	AAAA
MOTA	2396	CA	LEU A			28.323		55.479		27.38	AAAA
ATOM	2397	CB	LEU A			28.782	45.378			28.18	AAAA
ATOM	2398	CG	LEU A			30.081	44.723	55.024		29.32	AAAA
ATOM	2399	CD1	LEU A	302		30.119	44.840				AAAA
ATOM	2400	CD2	LEU A	302		31.296	45.389		1.00	27.38	
MOTA	2401	С	LEU A	302		29.398	46.187			26.41	AAAA
ATOM	2402	0	LEU A			29.874	45.648	58.755	1.00	26.62	AAAA
ATOM	2403	N	ALA A			29.756	47.397	57.353		26.50	AAAA
ATOM	2404	CA	ALA A			30.778	48.176			25.92	AAAA
ATOM	2405	CB	ALA A	303		31.001	49.475	57.277		25.24	AAAA
	2406	C	ALA A	303		30.490		59.487		26.03	AAAA
ATOM	2407	Ö	ALA A	303		31.325		60.340	1.00	26.95	AAAA
MOTA		Ŋ	ARG A	304		29.322			1.00	25.29	AAAA
ATOM	2408		ARG A	3 304		28.999			1.00	23.46	AAAA
ATOM	2409	CA		304		27.641			1.00	23.78	AAAA
ATOM	2410	CB	ARG A			27.553			1.00	24.59	AAAA
MOTA	2411	CG				26.302			1.00	25.85	AAAA
MOTA	2412	CD		A 304		25.067				27.54	AAAA
MOTA	2413	NE	ARG A			23.978				28.36	AAAA
ATOM	2414	CZ		A 304		23.957				26.48	AAAA
ATOM	2415	NHI	ARG A	A 304		22.910				28.45	AAAA
ATOM	2416		ARG A							23.18	AAAA
ATOM	2417	С	ARG	A 304		28.991			1.00	22.26	AAAA
ATOM	2418	0	ARG A	A 304		29.591				23.20	AAAA
ATOM	2419	N	ALA	A 305		28.330				22.33	AAAA
MOTA	2420	CA	ALA	A 305		28.200	45.817		1.00	22.17	AAAA
ATOM	2421	CB	ALA .	A 305		27.319					AAAA
MOTA	2422	С	ALA	A 305		29.516		62.621	1.00	22.27	AAAA
MOTA	2423	0	ALA .	A 305		29.763			1.00	22.48	AAAA
MOTA	2424	·N	TRP .	A 306		30.366			1.00	22.57	AAAA
ATOM	2425	CA	TRP .	A 306		31.634	44.30		1.00	21.28	AAAA
ATOM	2426	CB	TRP	A 306		32.279				21.07	
ATOM	2427	CG		A 306		31.703	42.618		1.00	20.75	AAAA
MOTA	2428		TRP			31.886	42.10			19.54	AAAA
ATOM	2429	CE	TRP	a 306		31.352	40.79	5 58.668		19.18	AAAA
		CES	TRP	3 306		32.45			1.00	0 1 9 .59	AAAA
ATOM	2430	CDI	TRP	A 306		31.07			1.00	0 20.51	AAAA
MOTA	2431	NE3	LTRP	306		30.864		7 59.922		0 19.74	AAAA
MOTA	2432	MET	1 WDD	200		31.36			1.00	0 19.18	AAAA
MOTA	2433	CZ2	TRP	7 30C		32.47				0 18.98	AAAA
MOTA	2434		3. TRP	W 200		31.93				0 19.21	AAAA
MOTA	2435		TRP							0 20.80	AAAA
MOTA	2436			A 306		32.57				0 20.55	AAAA
MOTA	2437	0	TRP	A 306		33.45				0 20.17	AAAA ···
ATCM	2438	N	THR	A 307		32.37				0 20.54	AAAA
MOTA	2439			A 307		33.17				0 21.09	AAAA
ATOM	2440	CB		A 307		32.86			1 1 0	0 21.05	AAAA
MOTA	2441	OG:	1 THR	A 307		33.32			_		AAAA
ÄTOM	2442		2 THR	A 307		33.52	3 49.83	9 64.030	, 1.0	0 20.09	

ATOM	2443	С	THR	Α	307	32.853	47.135	64.893	1.00 20.88	8 aaaa
ATOM	2444	0	THR			33.738	47.175	65.747	1.00 21.89	
ATOM	2445	N	LEU	Α	308	31.588	46.851	65.192	1.00 20.10	AAAA 0
ATOM	2446	CA	LEU			31.189	46.543	66.559	1.00 21.1	
ATOM	2447	CB	LEU	Α	308	29.671	46.340	66.644	1.00 20.99	9 AAAA
ATOM	2448	CG	LEU	a	300	28.897	47.656	66.674	1.00 21.5	4 AAAA
ATOM	2449	CD1	LEU	Α	308	27.397	47.473	66.411	1.00 19.9	1 AAAA
ATOM	2450	CD2	LEU	'n	308	29.177	48.283	68.045	1.00 21.0	4 AAAA
ATOM	2451	С	LEU	Α	308	31.886	45.284	67.052	1.00 21.9	B AAAA
ATOM	2452	0	LEU	Δ	308	32.284	45.186	68.215	1.00 22.1	7 AAAA
ATOM	2453	N	ILE	А	309	32.023	44.310	66.165	1.00 22.3	2 AAAA
ATOM	2454	CA	ILE	A	309	32.658	43.069	66.544	1.00 23.13	2 AAAA
ATOM	2455	CB	ILE		309	32.590	42.016	65.413	1.00 22.3	
ATOM	2456	CG2	ILE	Α	309	33.356	40.787	65.827	1.00 21.7	6 aaaa
	2457		ILE			31.140	41.678	65.061	1.00 22.1	
MOTA										
ATOM	2458	CD1	ILE	Α	309	30.366	41.037	66.166	1.00 22.0	1 AAAA
MOTA	2459	С	ILE	Δ	309	34.115	43.377	66.790	1.00 24.5	2 AAAA
ATOM	2460	0	ILE			34.734	42.828	67.709	1.00 25.7	2 AAAA
ATOM	2461	N	TRP	Α	310	34.673	44.253	65.957	1.00 24.7	AAAA 0
							44.570		1.00 24.2	
ATOM	2462	CA	TRP			36.075		66.099		
MOTA	2463	CB	TRP	Α	310	36.587	45.417	64.944	1.00 23.2	9 AAAA
	2464	CG	TRP	A	310	38.040	45.712	65.123	1.00 23.1	
ATOM										
MOTA	2465	CD2	TRP	Α	310	39.104	44.752	65.257	1.00 21.3	6 AAAA
ATOM	2466	CF2	TRP	Δ	310	40.291	45.472	65.490	1.00 20.6	2 AAAA
ATOM	2467	CE3				39.165	43.354	65.202	1.00 20.0	1 AAAA
ATOM	2468	CD1	TRP	Α	310	38.614	46.938	65.273	1.00 22.8	2 AAAA
•							-			
ATOM	2469	NE1	-			39.967	46.803	65.497	1.00 22.3	
MOTA	2470	CZ2	TRP	Α	310	41.521	44.845	65.668	1.00 19.9	1 AAAA
ATOM	2471	CZ3	TRP	λ	310	40.388	42.734	65.381	1.00 19.0	
ATOM	2472	CH2	TRP	A	310	41.547	43.477	65.610	1.00 19.4	aaaa 0
ATOM	2473	С	TRP	Δ	310	36.318	45.279	67.411	1.00 25.2	6 AAAA
MOTA	2474	0	TRP			37.262	44.945	68.109	1.00 24.7	
ATOM	2475	N	CYS	Α	311	35.467	46.247	67.749	1.00 26.7	б аааа
ATOM	2476	CA	CYS			35.608	46.975	69.007	1.00 27.8	
ATOM	.2477	CB	CYS	Α	311	34.548	48.081	69.113	1.00 28.9	aaaa 8
MOTA	2478	SG	CYS	Α	311	34.798	49.462	67.991	1.00 31.8	9 AAAA
ATOM	2479	С	CYS			35.495	46.043	70.212	1.00 27.5	1 AAAA
ATOM	2480	0	CYS	А	311	36.289	46.127	71.135	1.00 26.9	AAAA 0
	2481		GLU			34.495	45.169	70.187	1.00 27.3	
ATOM		N								
MOTA	2482	CA	GLU	Α	312	34.246	44.210	71.250	1.00 28.0	3 AAAA
ATOM	2483	CB	GLU	Δ.	312	33.106	43.287	70.850	1.00 28.5	5 AAAA
MOTA	2484	CG	GLU	A	212	31.903	43.333	71.741	1.00 28.9	
ATOM	2485	CD	GLU	A	312	32.232	42.958	73.154	1.00 29.7	AAAA 8
	2486		GLU			32.954	41.957	73.345	1.00 30.8	
ATOM										
ATOM	2487	OE2	GLU	А	312	31.754	43.653	74.071	1.00 30.7	9 AAAA
ATOM	2488	С	GLU	A	312	35.463	43.357	71 514	1.00 28.9	1 AAAA
		_				35.822		72 662		
ATOM	2489	0	GLU				43.110		1.00 30.5	
ATOM	2490	N	LEU	Α	313	36.081	42.889	70.436	1.00 29.0	4 AAAA
ATOM	2491	CA	LEU			37.266	42.045	70.516	1.00 28.8	
MOTA	2492	CB	LEU	Α	113	37.524	41.373	69.157	1.00 29.3	
ATOM	2493	CG	LEU	A	313	36.548	40.311	68.644	1.00 30.3	2 AAAA
						36.910		67.215	1.00 30.2	
ATOM	2494		LEU				39.872			
ATOM	2495	CD2	LEU	Α	313	36.582	39.114	69.593	1.00 30.4	2 AAAA
	2496	C	LEU			38.474	42.888	70.905	1.00 27.7	
MOTA										
ATOM	2497	0	LEU	A	313	39.215	42.553	71.808	1.00 27.3	
MOTA	2498	N	SER			38.642	43.986	70.191	1.00 27.9	5 AAAA
MOTA	249,9	CA	SER			39.736	44.927	70.376	1.00 28.6	
MOTA	2500	CB	SER	Α	314	39.690	45.937	69.231	1.00 27.4	9 AAAA
	2501	OG	SER			40.703	46.904	69.343	1.00 30.1	
MOTA										
ATOM	2502	C	SER	Α	314	39.666	45.653	71.727	1.00 29.6	7 AAAA
ATOM	2503	0	SER			40.488	46.517	72.023	1.00 29.0	
ATCM	2504	N	GLY			3.8.676	45.302	72.538	1.00 30.7	
ATOM	2505	CA	GLY	Α	315	38.535	45.935	73.827	1.00 32.9	2 AAAA
						38.542		73.784	1.00 34.9	
ATOM	2506	С	GLY				47.452			
ATCM	2507	0	GLY	Α	315	39.142	48.091	74.647	1.00 35.1	
ATOM	2508	N	ARG			37.881	48.041	72.794	1.00 36.8	
	- JUO		TI/O	••	-10	37.002	10.041		1.00 30.0	
										•

ATOM	2509	CA	ARG	A	316	37.841	49.493	72.702	1.00 39.49	AAAA
					316	38.608	49.968			
ATOM	2510	CB						71.484	1.00 39.86	AAAA
ATOM	2511	CG	ARG	A	316	37.946	49.677	70.161	1.00 40.77	AAAA
MOTA	2512	CD	ARG	A	316	38.843	50.226	69.077	1.00 41.47	AAAA
ATOM	2513	NE			316	40.140	49.566	69.092	1.00 42.36	AAAA
MOTA	2514	CZ			316	41.224	50.057	68.515	1.00 43.38	AAAA
MOTA	2515	NHl	ARG	Α	316	41.159	51.217	67.882	1.00 44.76	AAAA
MOTA	2516	NH2	ARG	Α	316	42.361	49.385	68.556	1.00 43.71	AAAA
	2517	С			316	36.418	50.015	72.631	1.00 41.54	AAAA
MOTA										
ATOM	2518	0			316	35.564	49.429	71.959	1.00 42.64	AAAA
ATOM	2519	N	GLU	Α	317	36.163	51.119	73.329	1.00 43.10	AAAA
MOTA	2520	CA	GLU	Α	317	34.830	51.720	73.356	1.00 44.51	AAAA
ATOM	2521	CB			317	34.809	52.936	74.293	1.00 46.17	AAAA
ATOM	2522	CG			317	34.472	52.614	75.759	1.00 49.65	AAAA
MOTA	2523	CD	GLU	Α	317	35.426	51.623	76.439	1.00 52.51	AAAA
MOTA	2524	OE1	GLU	Α	317	35.153	51.251	77.607	1.00 53.37	AAAA
ATOM	2525	OF2	GLH	A	317	36.444	51.214	75.831	1.00 54.14	AAAA
	2526	C			317	34.318	52.098	71.974	1.00 43.86	AAAA
ATOM										
ATOM	2527	0			317	35.067	52.532	71.108	1.00 42.46	AAAA
MOTA	2528	N	VAL	Α	318	33.023	51.916	71.779	1.00 44.79	AAAA
ATOM	2529	CA	VAL	Α	318	32.394	52:197	70.502	1.00 45.57	AAAA
ATCM	2530	CB			318	31.098	51.369	70.324	1.00 45.36	AAAA
ATOM	2531		VAL			30.537	51.558	68.924	1.00 45.44	AAAA
MOTA	2532	CG2	VAL	Α	318	31.366	49.911	70.612	1.00 46.35	AAAA
MOTA	2533	C	VAL	Α	318	32.007	53.652	70.377	1.00 46.41	AAAA
ATOM	2534	0			318	31.199	54.145	71.165	1.00 46.53	AAAA
					319	32.584	54.370			
ATOM	2535	N						69.396	1.00 46.89	AAAA .
ATOM	2536	CD			319	33.581	54.017	68.375	1.00 46.44	AAAA
MOTA	2537	CA	PRO	Α	319	32.209	55.774	69.247	1.00 47.62	AAAA
ATOM	2538	CB	PRO	Α	319	33.022	56.206	68.024	1.00 46.96	AAAA
ATOM	2539	CG			319	33.161	54.922	67.251	1.00 46.38	AAAA
MOTA	2540	С			319	30.709	55.743	68.977	1.00 48.64	AAAA
MOTA	2541	0			319	30.236	54.860	68.262	1.00 48.61	AAAA
ATOM	2542	N	GLU	A	320	29.944	56:.667	69.544	1.00 49.24	AAAA
ATOM	2543	CA	GLU	4	320		. 56.598	69.288	1.00 50.01	AAAA
	2544	CB			320	27.720	57.330	70.363	1.00 51.15	AAAA
ATOM										
ATOM	2545	ÇG			320	27.828	58.831	70.339	1.00 53.01	AAAA
ATOM	2546	CD	GLU	Α	320	26.825	59.474	71.282	1.00 54.34	AAAA
ATOM	2547	OE1	GLU	Α	320	25.604	59.273	71.077	1.00 54.04	AAAA
ATOM	2548	OE2	GLU	A	320	27.255	60.171	72.228	1.00 55.06	AAAA
ATOM	2549	C			320	28.206	57.168	67.921	1.00 49.78	AAAA
-										
MOTA	2550	0			320	27.170	56.861	67.324	1.00 49.79	AAAA
ATOM	2551	N	LYS	Α	321	29.116	57.980	67.407	1.00 49.26	AAAA
ATOM	2552	CA	LYS	Α	321	28.906	58.589	66.109	1.00 49.20	AAAA
ATOM	2553	CB			321	28.873	60.106	66.251	1.00 50.38	AAAA
			LYS				60.674		1.00 52.88	
MOTA		CG								
ATÓM	555	CD	LYS			30.717	60.180	68.002	1.00 53.76	AAAA
ATOM	2356	CE	LYS	Α	321	32.229	60.348	68.154	1.00 55.00	AAAA
ATOM	2557	NZ	LYS	Α	321	32.715	61.725	67.829	1.00 55.95	AAAA
ATOM	2558	C	LYS				58.207	65.171	1,00 48.64	AAAA
								_		
MOTA	2559	0	LYS			31.052	57.650	65.590	1.00 48.58	AAAA
MOTA	2560	N	LEU			29.854	58.511	63.894	1.00 47.78	AAAA
ATOM	2561	CA	LEU	Α	322	30.870	58.238	62.896	1.00 46.13	AAAA
ATOM	2562	CB	LEU			30.248		61.638	1.00 46.84	AAAA
							56.504			AAAA
MOTA	2563	CG	LEU			29.240		61.848	1.00 47.71	
ATOM	2564		LEU			28.788		60.491	1.00 48.02	AAAA
ATOM	2565	CD2	LEU	À	322	29.853	55.374	62.667	1.00 48.21	AAAA
ATOM	2566	C	LEU			31.427	59.608	62.580	1.00 44.61	AAAA
			LEU			30.674	60.571	62.491	1.00 44.73	AAAA
MOTA	2567	0								
ATOM	2568	N	ASN			32.741	59.706	62.447	1.00 42.66	AAAA
ATOM	2569	CA	ASN	A	323	33.360	60.976	62.135	1.00 41.19	AAAA
MOTA	2570	CB	ASN	A	323	34.860	60.904	62.402	1.00 41.07	AAAA
ATOM	2571	CG	ASN			35.576	60.001	61.436	1.00 41.43	AAAA
							58.901	61.147	1.00 42.46	AAAA
ATOM	2572		ASN							
ATCM	2573	ND2	ASN	A	323		60.449	60.943	1.00 41.77	AAAA
MOTA	2574	С	ASN	A	323	33.068	61.223	60.658	1.00 40.76	AAAA

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ATOM	2575	Ο.	ASN	Α	323	32.430	60.395	60.010	1.00 40.19	AAAA
ATOM	2576	N .			324	33.523	62.352	60.129	1.00 40.11	AAAA
					324	33.268	62.699	58.735	1.00 39.99	
ATOM	2577	CA			-					AAAA
ATOM	2578	СВ			324	33.711	64.128	58.472	1.00 39.54	AAAA
MOTA	2579	CG			324	33.003	65.114	59.361	1.00 40.88	AAAA
MOTA	2580	OD1	ASN			31.763	65.145	59.417	1.00 40.77	AAAA
ATOM	2581	ND2	ASN	Α	324	33.779	65.938	60.064	1.00 40.63	AAAA
ATOM	2582	C T	ASN	Α	324	33.918	61.786	57.712	1.00 40.10	aaaa
ATOM	2583	С	ASN	Α	324	33.320	61.468	56.678	1.00 39.24	AAAA
ATOM	2584	N	LYS	A	325	35.144	61.376	58.011	1.00 40.41	AAAA
ATOM	2585	CA			325 .	35.908	60.519	57.126	1.00 41.41	AAAA
ATOM	2586	CB			325	37.262	50.201	57.761	1.00 42.64	AAAA
	2587	CG			325	38.224	59.504	56.828	1.00 44.45	AAAA
ATOM					325	39.575	59.199	57.491	1.00 45.61	AAAA
MOTA	2588	CD								
ATOM	2589	CE			325	40.358	60.464	57.850	1.00 45.88	AAAA
ATOM	2590	NZ			325	41.717	60.151	58.404	1.00 46.27	AAAA
MOTA	2591	С			325	35.124	59.248	56.856	1.00 41.56	AAAA
ATOM	2592	0			325	35.042	58.781	55.716	1.00 41.35	AAAA
ATOM	2593	N	ALA	Α	326	34.524	58.703	57.906	1.00 41.32	AAAA
ATOM	2594	CA	ALA	Α	326	33.732	57.492	57.774	1.00 41.07	<i>ñ</i> AAA
ATOM	2595	CB	ALA	A	326	33.452	56.912	59.143	1.00 40.87	AAAA
ATOM	2596	С			326	32.420	57.722	57.019	1.00 41.24	AAAA
ATOM	2597	ō			326	32.045	56.913	56.174	1.00 40.91	AAAA
ATOM	2598	N			327	31.719	58.815	57.316	1.00 41.92	AAAA
	2599	CA			327	30.451	59.097	56.631	1.00 42.20	AAAA
ATOM					327	29.796	50.374	57.170	1.00 42.20	AAAA
MOTA	2600	CB								
ATOM	2601	CG			327	29.534	60.413	58,670	1.00 45.83	ببيه
ATOM	2602	CD			327 .	28.745	51.681	59.029	1.00 47.34	aaaa
ATOM	2603	CE			327	28.682	61.952	60.538	1.00 48.28	AAAA
MOTA	2604	NZ			327	28.090	60.845	61.351	1.00 48.98	AAAA
ATOM	2605	С	LYS	Α	327	30.673	59.266	55.125	1.00 41.33	AAAA
ATOM	2606	0	LYS	Α	327	29.879	58.797	54.309	1.00 40.78	AAAA
ATOM	2607	N	GLU	Α	328	31.761	59.950	54.781	1.00 40.39	AAAA
ATOM	2608	CA	GLU	A	328	32.129	60.217	53.399	1.00 38.91	AAAA
ATOM	2609	CB	GLU	Α	328	33.300	61.199	53.369	1.00 40.04	AAAA
ATOM	2610	CG	GLU	Α	328	32.941	62.576	53.909	1.00 41.94	AAAA
ATOM	2611	CD			328	34.131	63.515	53.994	1.00 43.77	AAAA
ATOM	2612		GLU			34.904	63.595	53.010	1.00 44.29	AAAA
ATOM	2613		GLU			34.285	64.189	55.040	1.00 45.11	AAAA
ATOM	2614	C			328	32.497	58.938	52.675	1.00 37.39	AAAA
•	2615	0			328	32.114	58.722	51.525	1.00 37.31	AAAA.
MOTA					329	33.255	58.091	53.355	1.00 37.31	AAAA
ATOM	2616	N						52.783	1.00 33.07	AAAA
ATOM	2617	CA			329	33.657	56.820			
MOTA	2618	CB			329	34.451	56.012	53.813	1.00 30.62	AAAA
ATOM	2619	CG			329	34.760	54.549	53.481	1.00 27.48	AAAA
MOTA	2620		LEU			35.549	54.453		1.00 ?6.24	AAAA
MOTA	2621		LEU					54.622	1.00 25.74	AAAA
MOTA	2622	C			329		56.057	52.368	1.00 33.24	AAAA
ATOM	2623	0	LEU	Α	329	32.239	55.708	51.205	1.00 32.72	AAAA
ATOM	2624	N	LEU	Α	330	31.519	55.810	53.327	1.00 33.92	AAAA
MOTA	2625	CA	LEU	A	330	30.289	55.090	53.046	1.00 34.91	AAAA
ATOM	2626	CB			330	29.411	55.023	54.292	1.00 34.02	AAAA
ATOM	2627	CG			330	30.067	54.236	55.418	1.00 34.06	AAAA
	. 2623		LEU			29.096	54.060	56.571	1.00 33.63	AAAA
	2629		LEU				52.892	54.884	1.00 33.82	AAAA
ATOM		C			330		55.695	51.907	1.00 35.94	AAAA
ATOM	2630									
ATOM	2631	0			330	28.984	54.968	51.060	1.00 36.14	AAAA
MOTA	2632	N			331		57.022	51.883	1.00 38.17	AAAA
MOTA	2633	CA			331	28.664	57.718	50.845	1.00 41.05	AAAA.
MOTA	2634	CB			331	28.407	59.161	51.233	1.00 41.83	AAAA
MOTA	3635	CG			331		59.358	52.497	1.00 43.26	AAAA
ATOM	2636	CD	LYS	A	331	27.202	60.823	52.755	1.00 44.15	AAAA
ATOM	2637	CE			331	26.182	61.333	51,730	1.00 45.71	AAAA
ATOM	2638	NZ			331			51.993	1.00 45.95	AAAA
ATOM	2639	C			331	29.342		49.490	1.00 42.22	AAAA
	2640	0			331	28.712		48.480	1.00 41.94	AAAA
MOTA	÷040	5	تدب	~	JJ	20.712	37.300			

ATOM.	2641	N	SER .	Δ.	332	30.618	57.316	49.463	1.00	44.45	AAAA
	2642	CA	SER			31.351	57.271	48.202		46.88	AAAA
ATOM	_		SER			32.854	57.416	48.435	1.00	46.49	AAAA
ATOM	2643	CB	SER			33.380	56.263	49.058		45.65	AAAA
ATOM	2644	OG				31.093	55.959	47.494		48.73	AAAA
MOTA	2645	C	SER				55.854	46.281		49.51	AAAA
ATOM -	2646	0	SER			31.262				50.62	AAAA
ATOM	2647	N	ILE			30.697	54.952	48.258			AAAA
ATOM	2648	CA	ILE			30.420	53.648	47.686		52.65	
MOTA	2649	CB	ILE	А.:	333	30.246	52.584	48.779		52.35	AAAA
ATOM	2650	CG2	ILE	A :	333	29.889	51.248	48.157		51.40	AAAA
ATOM	2651	CG1	ILE			31.522	52.465	49.596		52.29	AAAA
ATOM	2652		ILE			31.403	51.463	50.696		53.23	AAAA
ATOM	2653	C	ILE			29.120	53.712	46.924-	1.00	54.42	AAAA
	2654	o	ILE			28.122	54.178	47.462	1.00	55.10	AAAA
MOTA		Ŋ	ASP			29.118	.53.274	45.672		56.56	AAAA
ATOM	2655		ASP	Λ.	334	27.863	53.263	44.940		59.13	AAAA -
ATOM	2656	CA				28.050	53.460	43.433		59.64	AAAA
MOTA	2657	CB	ASP			28.976	52.446	42.823		59.23	AAAA
MOTA	2658	CG	ASP				52.194	41.606		58.87	AAAA
MOTA	2659					28.853				59.34	AAAA
MOTA	2660	OD2	ASP	Α	334	29.839	51.925	43.559			
ATOM	2661	С	ASP			27.251	51.898	45.215		60.95	AAAA
ATOM	2662	0	ASP	Α	334	27.803	50.861	44.840		61.15	AAAA
ATOM	2663	N	PHE	Α	335	26.113	51.914	45.897		62.56	AAAA
ATOM	2664	CA	PHE			25.414	50.701	46.257		64.12	AAAA
ATOM	2665	CB	PHE			25.311	50.621	47.779	1.00	64.40	AAAA
ATOM	2666	CG	PHE			24.224	49.714	48.263	1.00	64.98	AAAA
ATOM	2667		PHE			24.180	48.379	47.868	1.00	65.54	AAAA
	2668	CD2	PHE	Δ.	335	23.234	50.197	49.107	1.00	65.12	AAAA
ATOM			PHE			23.163	47.539	48.305	1.00	65.75	AAAA
MOTA	2669					22.213	49.367	49.552		65.79	AAAA
MOTA	2670	CE2				22.177	48.034	49.150		66.01	AAAA
ATOM	2671	CZ	PHE			24.025	50.626	45.640		65.41	AAAA
MOTA	2672	C	PHE				49.564	45.184		65.27	AAAA
MOTA	2673	0	PHE			23.591				66.38	AAAA
MOTA	2674	N	GLU			23.338	51.763	45.618		67.49	AAAA
MOTA	2675	CA	GLU			21.980	51.826	45.097			AAAA
ATOM	2676	CB	GLU			21.893	51.260	43.673		68.25	
ATOM	2677	CG	GLU			20.459	51.230	43.116		69.15	AAAA
MOTA	2678	CD	GLU	Α	336	20.334	50.465	41.804		69.40	AAAA
ATOM	2679	OE1	GLU	Α	336	20.710	49.271	41.784		69.57	AAAA
ATOM	2680		GLU			19.851	51.051	40.804		69.10	AAAA
ATOM	2681	C	GLU			21.098	50.999	46.025		67.68	AAAA
ATOM	2682	ō	GLU			21.216	49.776	46.082		67.58	AAAA
ATOM	2683	N	GLU	Ä	337	20.227	51.679	46.761	1.00	67.87	AAAA
	2684	CA			337	19.317	51.020	47.686	1.00	68.66	AAAA
ATOM		CB			337	18.583	52.085	48.502	1.00	68.88	AAAA
MOTA	2685		CLU	•	337	18.279	51.715	49.944		68.12	· AAAA
MOTA	2686	CG	SLU		227	19.527	51.587	50.789	1.00	67.70	AAAA
MOTA	2687	CD	GLU	A	337		52.554	50.851		67.05	AAAA
MOTA	2688	OE1	GLU		337	20.319				67.79	AAAA
MOTA	2689	OE2	GLU	A	337	19.711	50.518	51.398		69.28	AAAA
MOTA	2690	C	GLU	Α	337	18.322	50.222	46.827			AAAA
ATOM	2691	0	GLU	Α	337	17.886	50.705	45.780		69.50	
ATOM	2692	N	PHE	Α	338	17.966	49.012	47.259		69.55	AAAA
ATOM	2693	CA	PHE	Α	338	17.035	48.176	46.497		69.67	AAAA
ATOM	2694	CB			338	16.995	46.759	47.066	1.00	70.51	AAAA
ATOM	2695	CG			338	16.225	45.789	46.221		71.57	AAAA
MOTA	2696		. PHE			16.666	45.462	44.936		72.04	AAAA
	2697		PHE			15.052	45.208	46.698	1.0	0 71.69	AAAA
MOTA		CE1	PHE	2	338	15.944	44.566	44.138		72.23	AAAA
MOTA	2698	CEI	. rae	ν,	228	14.323		45.909		0 71.93	AAAA
MOTA	2699		PHE			14.770		44.627		0 72.11	AAAA
MOTA	2700	CZ			338	15.633		46.494		0 69.26	AAAA
ATOM	2701	C			338					0 68.86	AAAA
ATOM	2702	0			338	15.072		45.434		0 69.35	AAAA
ATOM	2703	N	ASP	À	339	15.053		47.674		0 69.61	AAAA
ATOM	2704	CA			339	13.733		47.755			AAAA
· ATOM	2705	CB	ASP	Α	339	13.134				0 69.48	AAAA AAAA
MOTA	2706		ASP	A	339	11.819	50.233	49.299	1.0	0 69.72	AAAA
								-			•

MOTA

ATOM

ATOM

ATOM

MOTA

ATOM

ATCM

ATOM

2765

2766

2767

2768

2770 C

2771 O 2772 N

2769 OH TYR A 346

CE1 TYR A 346

CD2 TYR A 346

CE2 TYR A 346

CZ TYR A 346

TYR A 346

TYR A 346

MET A 347

AAAA

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257/263 Figure 10-42

Figure 19-42											
ATOM	2707	OD1	ASP A	339	11.813	51.462	49.058	1.00 69.39	AAAA		
ATOM	2708		ASP A		10.790	49.618	49.655	1.00 69.78	AAAA		
ATOM	2709	С	ASP A	339	13.972	51.035	47.440	1.00 69.95	AAAA		
MOTA	2710	0	ASP A	339	14.305	51.815	48.333	1.00 69.92	AAAA		
ATOM	2711	N	ASP A		13.810	51.389	46.168	1.00 70.23	AAAA		
MOTA	2712	CA	ASP A		14.023	52.748	45.699	1.00 70.39	AAAA		
ATOM	2713	CB	ASP A		12.757	53.283	45.041	1.00 70.64	AAAA		
MOTA	2714	CG	ASP A		12.397	52.517	43.791	1.00 70.86	AAAA		
MOTA	2715		ASP A		12.126	51.302	43.903	1.00 70.93 1.00 70.89	AAAA AAAA		
ATOM	2716		ASP A		12.399 14.482	53.125 53.674	42.699 46.807	1.00 70.63	AAAA		
ATOM	2717	C	ASP A		15.688	53.847	47.008	1.00 71.13	AAAA		
ATOM	2718 2719	О И	GLU A		13.543	54.259	47.544	1.00 69.95	AAAA		
ATOM ATOM	2720	CA	GLU A		13.947	55.150	48.619	1.00 69.17	AAAA		
ATOM	2721	CB	GLU A		13.636	56.613	48.266	1.00 70.83	AAAA		
ATOM	2722	CG	GLU A		14.098	57.601	49.347	1.00 73.44	AAAA.		
ATOM	2723	CD	GLU A		13.956	59.071	48.951	1.00 75.27	AAAA		
MOTA	2724	OE1	GLU A	341	12.825	59.518	48.646	1.00 76.21	AAAA		
ATOM	2725	OE2	GLU A		14.984	59 .786	48.954	1.00 75.69	AAAA		
MOTA	2726	С	GLU A		13.367	54.819	49.983	1.00 67.09	AAAA		
ATOM	2727	0	GLU A		12.233	55.176	50.297	1.00 66.57	AAAA		
MOTA	2728	N	VAL A		14.158	54.114	50.785	1.00 64.87 1.00 62.55	AAAA AAAA		
MOTA	2729	CA	VAL A		13.767 14.265	53.779 52.377	52.148 52.589	1.00 62.33	AAAA		
MOTA	2730	CB	VAL A		14.265	52.193	54.081	1.00 62.56	AAAA		
MOTA	2731 2732		VAL A		13.513	51.298	51.849	1.00 63.69	AAAA		
MOTA MOTA	2733	C	VAL A		14.483	54.822	52.982	1.00 59.94	AAAA		
ATOM	2734	ŏ	VAL A		14.022	55.215	54.054	1.00 59.91	AAAA		
ATOM	2735	N	ASP 2		15.609	55.278	52.442	1.00 56.85	AAAA		
ATOM	2736	CA	ASP A	343	16.457	56.266	53.085	1.00 54.01	AAAA		
ATOM	2737	CB	ASP A		15.639	57.446	53.605	1.00 54.18	AAAA		
MOTA	2738	CG	ASP A	A 343	16.505	58.511	54.241	1.00 53.96	AAAA		
ATOM	2739		ASP A		15.947	59.485	54.785 54.191	1.00 54.59 1.00 53.61	AAAA AAAA		
ATOM	2740			343	. 17.747 17.186	58.373 55.609	54.242	1.00 51.92	AAAA		
ATOM	2741 2742	С 0	ASP A		16.611	55.371	55.307	1.00 51.89	AAAA		
MOTA MOTA	2743	N		344	18.458	55.306	54.029	1.00 48.86	AAAA		
ATOM	2744	CA	ARG A		19.240	54.676	55.069	1.00 45.59	AAAA		
ATOM	2745	СЭ		344	19.847	53.369	54.573	1.00 43.94	AAAA		
ATOM	2746	CG		344	18.847	52.289	54.220	1.00 41.70	AAAA		
ATOM	2747	CD	ARG A	344	17.953	51.955	55.385	1.00 38.94	AAAA		
ATOM	2748	NE		344	17.139	50.781	55.096	1.00 36.78	AAAA		
MOTA	2749	CZ		344	16.176	50.316	55.888	1.00 34.81	AAAA AAAA		
MOTA	2750		ARG A		15.890	50.927	57.033 55.537	1.00 34.11 1.00 31.84	AAAA AAAA		
ATOM	2751		ARG A	A 344	15.506 20.340	49.228 55.604	55.520	1.00 44.83	AAAA		
MOTA	2752 2753	С О	ARG A		21.308	55.157	56.128	1.00 43.97	A AA		
MOTA MOTA	2754	И		345	20.192	56.895	55.226	1.00 44.32	AF AA		
ATOM	2755	CA		345	21.199	57.877	55.618	1.00 43.74	AAAA		
ATOM	2756	CB		345	20.860	59.248	55.039	1.00 44.49	AAAA		
ATOM	2757	OG		345	19.645	59.729	55.577		AAAA		
ATOM	2758	С		345	21.307	57.977	57.144	1.00 42.82	AAAA		
ATOM	2759	0		A 345	22.304	58.472	57.674	1.00 42.91	AAAA		
MOTA	2760	N		346	20.282	57.509	57.849	1.00 41.48	AAAA		
ATOM	2761	CA		A 346	20.296	57.549	59.303	1.00 40.35	AAAA AAAA		
ATOM	2762	CB		A 346	18.947	57.068	59.858 59.609	1.00 40.38° 1.00 39.28	AAAA		
ATOM	2763	CG		A 346	18.630 19.293	55.601 54.589	60.316	1.00 39.28	AAAA		
ATOM	2764 2765		TYR Z		19.293	53.243	60.079	1.00 37.71	AAAA		
1 [][7]	2.101	1. E.L	111								

19.022 53.243

18.079 52.899 17.794 51.580 21.436 56.686 21.967 56.957

55.225

53.882

17.682

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21.800 55.640 59.113 1.00 39.14

1.00 38.49

58.408 1.00 38.17

59.126 1.00 37.59 58.898 1.00 37.14 59.849 1.00 39.91

60.921 1.00 40.28



1 mo14	2773	CA	MET A	347	22.879	54.756	59.530	1.00 38.19	AAAA
ATOM	2774		MET A		23.042	53.582	58.566	1.00 38.26	AAAA
ATCM			MET A		21.973	52.523	58.694	1.00 38.17	AAAA
MOTA	2775		MET A		22.317	51.115	57.641	1.00 38.05	
MOTA	2776				22.237	51.892	56.101	1.00 37.61	
ATOM	2777		MET A		-	55.494	59.603	1.00 38.00	
MOTA	2778	-	MET A		24.189		60.250	1.00 37.40	
MOTA	2779	0	MET A		25.127	55.033		1.00 37.40	
ATOM	2780	N	LEU A		24.248	56.637	58.929		
ATOM	2781	CA	LEU A	348	25.449	57.463	58.898	1.00 38.07	
MOTA	2782	CB	LEU A	348	25.445	58.330	57.638	1.00 36.66	
ATOM	2783	CG	LEU A	348	25.379	57.583	56.310	1.00 35.47	
MOTA	2784		LEU A	348	25.285	58.559	55.165	1.00 34.51	
ATOM	2785		LEU A		26.605	56.716	56.167	1.00 36.56	
ATOM	2786	C	LEU A		25.521	58.353	60.138	1.00 39.07	
	2787	Ō	LEU A		26.546	58.980	60.406	1.00 38.81	
ATOM		N	GLU A		24.432	58.385	60.898	1.00 39.90	AAAA (
MOTA	2788		GLU A		24.363	59.213	62.092	1.00 40.95	AAAA .
ATOM	2789	CA	GLU A		22.961	59.821	62.203	1.00 41.70	
MOTA	2790	CB			22.515	60.629	60.966	1.00 42.28	
ATCM	2791	CG	GLU A		23.349	61.891	60.708	1.00 42.53	
ATOM	2792	CD	GLU A		23.343	62.778	61.587	1.00 42.38	
ATOM	2793		GLU A				59.614	1.00 43.34	
MOTA	2794	OE2			23.933	61.998		1.00 41.12	
ATOM	2795	С	GLU A		24.740	58.511	63.406		
ATOM	2796	0	GLU A		24.664	59.118	64.476	1.00 41.38	
ATOM	2797	N	THR A		25.140	57.243	63.326	1.00 40.86	
MOTA	2798	CA	THR A	350	25.555	56.475	64.504	1.00 40.69	
MOTA	2799	CB	THR A	350	24.405	56.283	65.510	1.00 41.5	
ATOM	2800	CG1	THR A	350	24.062	57.549	66.078	1.00 41.4	
ATOM	2801	CG2			24.821	55.345	66.638	1.00 41.1	
ATOM	2802	С	THR A		26.109	55.109	64.141.		
ATOM	2803	ō	THR A		25.857	54.595	63.055	1.00 39.9	
ATOM	2804	N	LEU A		26.865	54.527	65.067	1.00 40.3	
ATOM	2805	CA	LEU A		27.491	53.227	64.857	1.00 40.7	
	2806	CB	LEU A		28.855	53.213	65.540	1.00 39.8	
ATOM	2807	CG	LEU A		29.911	52.290	64.951	1.00 39.6	
ATOM					31.170	52.403	65.772	1.00 39.8	8 AAAA
ATOM	2808	CD2		351	29.414	50.861	64.945	1.00 40.7	O AAAA
MOTA	2809		LEU A		26.612	52.091	65.384	1.00 41.1	2 AAAA
ATOM	2810	C	LEU A	351	26.467	51.060	64.736	1.00 40.0	
ATOM	2811	0	LYS A		26.040	52.292	66.567	1.00 42.9	9 AAAA
ATOM	2812	N			25.138	51.326	67.201	1.00 43.9	
ATOM	2813	CA	LYS A		25.412	51.225	68.707	1.00 43.3	AAAA 8
ATOM	2814	CB	LYS A		26.743	50.597	69.055	1.00 44.6	
ATCM	2815	CG	LYS A			50.927	70.482	1.00 45.4	
ATCM	2816	CD	LYS A		27.185	50.500	71.539	1.00 46.2	
ATOM	2817	CE	LYS A		26.189	50.944	72.895	1.00 47.3	4 AAAA
MOTA	2818	ΝŻ	LYS A		76.646	51.838	67.003	1.00 44.4	AAAA 0
ATOM	2819	С	LYS A		23.723		67.488	1.00 45.7	-
ATCM	2820	0	LYS A		23.375	52.917		1.00 44.7	
ATCM	2821	N	ASP A		22.904	51.083	66.287	1.00 44.7	
ATOM	2822	CA	ASP A		21.532	51.509	66.074	1.00 45.2	
ATOM	2823	CB	ASP A	353	21.050	51.030	64.702	1.00 45.2	•
ATOM	2824	CG	ASP A	353	21.146	49.544	64.546	.1.00 45.2	_
ATOM	2825	OD1	ASP A	353	21.806	49.086	63.581	1.00 45.0	
ATOM	2826	OD2	ASP A	353	20.549	48.841	65.391	1.00 45.5	
ATOM	2827	C	ASP A	353	20.645	50.993	67.217	1.00 44.4	
ATCM	2828	ō	ASP A		21.042	50.113	67.973	1.00 44.2	
	2829	N	PRO A		19.439	51.553	67.367	1.00 44.2	
ATOM	2830	CD	PRO A		18.839	52.617	66.550	1.00 44.3	
ATOM	2831	CA	PRO A		18.500	51.163		1.00 44.1	L8 AAAA
ATCM			PRO A		17.371	52.170		1.00 44.5	32 AAAA
ATCM	2832	CB	PRO A		17.368	52.341	66.749	1.00 44.6	SG AAAA
ATCM	2833	CG			17.995	49.740		1.00 43.8	37 AAAA
ATCM	2834	C	PRO A		17.962	49.152		1.00 44.4	AAAA 81
ATOM	2835	0	PRO A		17.588	49.132		1.00 43.2	
ATCM	2836		TRP A			47.851			
ATCM	2837		TRP A		17.051				
ATOM	2838	CB	TRP A	. 355	16.743	47401	10.921	1.00 90.	
			-						

	2020	~~	mp n		255	37 050	47.052	71.695	1.00 49.91	AAAA
MOTA	2839	CG	TRP			17.959				
MOTA	2840	CD2	TEP	Α	355	18.476	45.733	71.903	1.00 51.56	AAAA
MOTA	2841	CE2	TRP	Α	355	19.684	45.868	72.627	1.00 52.03	AAAA
ATOM	2842		TRP			18.038	44.450	71.548	1.00 52.25	AAAA
									1.00 50.53	
ATOM	2843		TRP			18.846	47.915	72.284		AAAA
ATOM	2844	NE1	TRP	Α	355	19.885	47 208	72.846	1.00 51.63	AAAA
MOTA	2845	CZ2	TRP	Α	355	20.460	44.763	73.003	1.00 52.64	AAAA
	•		TRP			18.810	43.352	71.921	1.00 53.12	AAAA
MOTA	2846	CZ3								
ATOM	2847	CH2	TRP	Α	355	20.008	43.518	72.642	1.00 53.02	AAAA
ATOM	2848	С	TRP	Α	355	15.788	47.767	68.675	1.00 40.28	AAAA
ATOM	2849	O	TRP			15.017	48.720	68.591	1.00 39.82	AAAA
ATOM	2850	N	ARG			15.591	46.610	68.065	1.00 36.83	AAAA
ATÓM	2851	CA	ARG	Α	356	14.440	46.365	67.225	1.00 33.70	AAAA
ATOM	2852	CB	ARG	A	356	14.901	46.197	65.772	1.00 29.50	AAAA
	2853	CG	ARG			15.635	47.423	65.256	1.00 25.22	AAAA
ATOM								63.973	1.00 21.53	AAAA
MOTA	2854	CD	ARG			16.418	47.194			
ATOM	2855	NE	ARG	Α	356	17.055	48.435	63.533	1.00 18.55	AAAA
ATOM	2856	CZ	ARG	Α	356	17.976	48.533	62.574	1.00 17.06	AAAA
ATOM	2857		ARG			18.403	47.451	61.919	1.00 17.64	AAAA
								62.241	1.00 11.56	AAAA
MOTA	2858		ARG			18.445	49.721			
ATOM	2859	Ç	ARG	Α	356	13.831	45.095	67.773	1.00 34.63	AAAA
ATOM	2860	0	ARG	A	356	13.605	44.117	67.051	1.00 35.86	AAAA
	2861	N	GLY			13.587	45.112	69.079	1.00 34.58	AAAA
ATOM										
ATOM	2862	CA	GLY			13.003	43.960	69.734	1.00 34.33	AAAA
ATOM	2863	С	GLY	Α	357	11.536	43.783	69.395	1.00 34.31	AAAA
ATOM (2864	0	GLY	Α	357	11.006	44.418	68.484	1.00 33.56	AAAA
ATOM	2865	N	GLY			10.876	42.906	70.139	1.00 34.47	AAAA
								69.916	1.00 34.61	AAAA
MOTA	2866	CA	GLY			9.468	42.656			
MOTA	2867	С	GLY	Α	358	9.114	41.389	70.655	1.00 34.47	AAAA
ATOM -	2868	0	GLY	Α	358	9.962	40.821	71.345	1.00 34.27	AAAA
ATOM	2869	N	GLU	Δ	359	7.869	40.948	70.523	1.00 34.16	AAAA
						7.438	39.729	71.180	1.00 33.94	AAAA
ATOM	2870	CA	GLU							
ATOM	2871	CB	GLU	Α	359	5.910	39.644	71.174	1.00 34.78	AAAA
ATOM	2872	CG	GLU	Α	359	5.2 7 8	40.648	72.123	1.00 36.70	AAAA
ATOM	2873	ĊD	GLU	Α	359	3.863	41.020	71.740	1.00 38.40	AAAA
	2874		GLU			3.017	40.108	71.600	1.00 39.65	AAAA
ATOM										
MOTA	2875	OE2	GLU			3.598	42.234	71.584	1.00 38.52	AAAA
ATOM	2876	C	GLU	Α	359	8.058	38.549	70.464	1.00 32.86	AAAA
ATOM	2877	0	GLU	Α	359	8.678	38.692	69.427	1.00 32.92	AAAA
	2878	N	VAL			7.918	37.375	71.036	1.00 32.63	AAAA
ATOM									1.00 32.70	AAAA
ATOM	2879	CA	VAL			8.480	36.215	70.409		
MOTA	2880	CB	VAL	Α	360	9.422	35.472	71.376	1.00 33.24	AAAA
ATOM	2881	CG1	VAL	A	360	10.017	34.252	70.701	1.00 32.99	AAAA
ATOM	2882		VAL			10.521	36.406	71.827	1.00 32.09	AAAA
								69.976	1.00 32.81	AAAA
MOTA	2883	С	VAL			7.339	35.319			
MOTA	2884	0	VAL	A	360	6.702	34.660	70.791	1.00 32.02	AAAA
ATOM	2885	N	ARG	A	361	7.084	35.321	68.674	1.00 33.12	AAAA
ATOM	2886	CA	ARG			6.035	34.508	68.086	1.00 33.52	AAAA
			ARG			6.148	34.558	66.565	1.00 33.43	AAAA
ATOM	2887	CB								
ATOM	2888	CG	ARG			5.731	35.885	65.967	1.00 34.35	AAAA
MOTA	2889	CD	ARG	Α	361	6.041	35.972	64.469·	1.00 33.90	AAAA
ATOM	2890	NE	ARG	A	361	7.430	36.331	64.193	1.00 31.70	AAAA
	2891	CZ	ARG			7.890	36.608	62.978	1.00 31.18	AAAA
ATOM										
MOTA	2892		ARG			7.068		61.941	1.00 30.48	AAAA
MOTA	2893	NH2	ARG	Α	361	9.162	36.948	62.802	1.00 29.71	AAAA
ATOM	2894	С	ARG	Α	361	6.066	33.057	68.557	1.00 34.20	AAAA
			ARG			7.101	32.537	68.968	1.00 33.79	AAAA
ATOM	2895	0								
MOTA	2896	N	LYS			4.914	32.407	68.496	1.00 34.68	AAAA
MOTA	2897	CA	LYS	Α	362	4.808	31.022	68.901	1.00 35.62	AAAA
ATOM	2898	CB	LYS			3.350	30.555	68.782	1.00 37.80	AAAA
		CG	LYS			2.378	31.226	69.756	1.00 40.38	AAAA
ATOM	2599									
ATOM	2900	CD	LYS			2.505	32.777	69.777	1.00 42.09	AAAA
ATOM	2901	CE	LYS	А	362	2.208	33.446	68.420	1.00 41.94	AAA A
ATOM	2902	NZ	LYS	Α	362	2.473	34.909	68.451	1.00 39.85	AAAA
		C	LYS	2	362	5.710	30.177	68.005	1.00 35.12	AAAA
ATCM	2903									AAAA
ATCM	2904	0	LYS	A	362	6.425	29.301	68.487	1.00 34.14	AAAA

ATOM	2905	N.	GLU A	363	5.661	30.460	66.703 .		AAAA
MOTA	2906	CA	GLU A	363	6.445	29.741	65.699	1.00 35.62	AAAA
MOTA	2907		GLU A		6.567	30.560	64.424	1.00 36.81	AAAA
MOTA	2908		GLU A		5.280	30.808	63.711	1.00 38.66 1.00 39.60	AAAA AAAA
MOTA	2909		GLU A		5.477	31.704	62.517	1.00 39.80	AAAA
ATOM -	2910		GLU A		6.287	31.324 32.782	61.637 62.469	1.00 39.11	AAAA
MOTA	2911		GLU A		4.826 7.836	29.450	66.181	1.00 35.14	ÀAAA
MOTA	2912		GLU A		8.321	28.316	66.098	1.00 34.50	AAAA
MOTA	2913		GLU A VAL A		8.475	30.505	66.671	1.00 34.96	AAAA
MOTA	2914 2915		VAL A		9.830	30.431	67.180	1.00 34.44	AAAA
ATOM .	2916		VAL A		10.338	31.821	67.570	1.00 33.68	AAAA
ATOM	2917		VAL A		11.739	31.722	68.162 -	1.00 34.13	AAAA
ATOM	2918		VAL A		10.337	32.715	66.347	1.00 31.83	AAAA
ATOM	2919	С	VAL A		9.908	29.499	68.370	1.00 34.44	AAAA
MOTA	2920	0	VAL A	364	10.789	28.640	68.430	1.00 36.01	AAAA-
ATOM	2921	N.	LYS A		8.980	29.649	69.305	1.00 33.27	AAAA AAAA
MOTA	2922	CA	LYS A		8.970	28.790	70.476 71.508	1.00 33.20	AAAA
MOTA	2923	CB	LYS A		7.968 8.307	29.319 30.705	72.033	1.00 33.67	
MOTA	2924	ÇG	LYS A		7.282	31.181	73.039	1.00 34.85	AAAA
MOTA	2925	CD	LYS A		7.658	32.534	73.638	1.00 36.47	AAAA
MOTA	2926	CE NZ	LYS A		6.698	32.990	74.710	1.00 37.91	AAAA
MOTA MOTA	2927 2928	C	LYS A		8.654	27.342	70.109	1.00 32.75	AAAA
ATOM	2929	0	LYS A		9.071	26.421	70.818	1.00 31.95	AAAA
ATOM	2930	N	ASP A		7.919	27.136	69.012	1.00 32.81	AAAA
ATOM	2931	CA	ASP A	366	7.600	25.777·	68.581	1.00 33.65	AAAA ,
ATOM	2932	CB	ASP A	366	6.459	25.726	67.557	1.00 33.98	AAAA AAAA
ATOM	2933	CG	ASP A		5.131	26.107	68.140	1.00 33.94	AAAA
MOTA	2934		ASP A		4.870	25.767 26.722	69.307 67.412	1.00 35.08	AAAA
MOTA	2935		ASP A		4.332 8.820	25.167	67.940	1.00 33.05	AAAA
MOTA	2936	C	ASP A		9.140	24.006	68.172	1.00 33.66	AAAA
MOTA	2937 2938	O N	THR A		9.473	25.959	67.102	1.00 33.07	AAAA
ATOM ATOM	2939	CA	THR A		10.684	25.540	66.412	1.00 32.27	AAAA
ATOM	2940	CB	THR A		11.304	26.719	65.641	1.00 32.28	AAAA
ATOM	2941	OG1	THR A	367	10.473	27.039	64.520	1.00 30.64	AAAA
MOTA	2942	CG2	THR A		12.711	26.377	65.166	1.00 33.29	AAAA AAAA
MOTA	2943	С	THR A		11.680	25.044	67.442 67.352	1.00 31.71	AAAA
ATOM .	2944	0	THR A		12.178 11.955	23.918 25.896	68.426	1.00 32.05	AAAA
MOTA	2945	N	LEU A		12.888	25.560	69.482	1.00 32.49	AAAA
ATOM	2946 2947	CA CB	LEU A		13.085	26.749	70.421	1.00 32.27	AAAA
MOTA ATOM	2948	CG	LEU A		14.097	27.809	69.960	1.00 32.71	AAAA
ATOM	2949		LEU A		15.488	27.170	69.899	1.00 33.00	AAAA
MOTA	2950		LEU A		13.709	28 393	68.597	1.00 31.86	AAAA
MOTA	2951	С	LEU ?	A 368	12.455	24.334	70.256	1.00 33.82	AAAA AAAA
MOTA	2952	0	LEU A		13.266	23.133	70.489	1.00 34.29 1.00 34.30	AAAA
ATOM	2953	N	GLU ?		11.183	24.285	70.645 71.375	1.00 34.30	AAAA
ATOM	2954	CA	GLU A		10.687 9.211	23.135 23.319	71.748		AAAA
MOTA	2955	CB	GLU A	360	8.974	24.285	72.920	1.00 40.18	AAAA
MOTA	2956 2957	CG CD	GLU A		7.509	24.359	73.341	1.00 41.56	AAAA
MOTA MOTA	.2958		GLU A		6.917	23.276	73.572	1.00 41.83	AAAA
ATOM	2959		GLU A		6.957	25.489	73.451	1.00 41.74	
MOTA	2960	C	GLU 2	A 369	10.893	21.822	70.611	1.00 37.16	AAAA
ATOM	2961	ō	GLU Z	A 369	11.338	20.831	71.196	1.00 37.00	
ATOM	2962	N	LYS 2	A 370	10.586	21.788	69.315	1.00 37.71	AAAA AAAA
MOTA	2963	CA	LYS	A 370	10.797	20.547	68.567	1.00 38.46 1.00 39.96	
MOTA	2964	CB		A 370	10.166	20.604	67.177	1.00 42.68	
MOTA	2965	CG	LYS	A 370	8.646 8.092	20.532 20.320	67.186 65.775	1.00 42.68	
ATOM	2966	CD	LYS	A 370	6.572	20.320	65.781	1.00 45.55	
ATOM	2967	CE	LYS	A 370 A 370	6.009	19.797	64.409	1.00 45.50	AAAA
ATOM	2968	NZ C	LVC	A 370	12.282	20.235	68.452	1.00 38.34	AAAA
MOTA MOTA	2969 2970	0	LYS	A 370	12.683	19.071	68.493	1.00 37.86	AAAA
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MOTA	2971	N	ALA	Δ.	371	13,105	21.266	68.311	1.00 37.69	AAAA
ATOM	2972		ALA			14.543	21.057	68.226	1.00 37.20	AAAA
ATOM	2973		ALA			15.258	22.375	67.936	1.00 35.48	AAAA
ATOM	2974		ALA			15.023	20.477	69.558	1.00 37.63	AAAA
	2975		ALA			15.920	19.626	69.585	1.00 37.12	AAAA
ATOM			LYS			14.426	20.930	70.665	1.00 37.59	AAAA
ATOM	2976 2977		LYS			14.796	20.432	71.995	1.00 37.46	AAAA
MOTA			LYS			14.022	21.156	73.095	1.00 36.52	AAAA
MOTA	2978		LYS			14.287	22.634	73.111	1.00 22.67	AAAA
ATOM	2979		LYS			13.309	23.396	74.022	1.00 22.67	AAAA
MOTA	2980		LYS			13.600	24.874	73.901	1.00 22.67	AAAA
MOTA	2981		LYS			12.692	25.708	74.785	1.00 22.67	AAAA
MOTA	2982					14.495	18.957	72.077	1.00 37.60	AAAA .
MOTA	2983		LYS			15.367	18.171	72.407	1.00 37.26	AAAA
ATOM	2984	0	LYS			13.307	18.595	71.789	1.00 38.17	AAAA
ATOM	2985	N	ALA			12.812	17.206	71.829	1.00 39.55	AAAA
ATOM	2986	CA	ALA			11.365	17.109	71.395	1.00 39.34	AAAA
ATOM	2987	CB	ALA			13.675	16.277	70.972	1.00 41.02	AAAA
MOTA	2988	C	ALA			14.366	15.410	71.561	1.00 42.26	AAAA
MOTA	2989	0	ALA			13.663	16.416	69.725	1.00 42.06	AAAA
MOTA	2990	OXT		A	3/3	23.696	34.788	54.072	1.00 27.38	ZONE
HETATM	2991	ZN	ZN		951	24.578	33.295	53.458	1.00 31.95	SAHA
HETATM	2992	01	SHA		1	24.376	35.218	51.444	1.00 33.51	SAHA
HETATM	2993	02	SHA		1			52.069	1.00 34.03	SAHA
HETATM		N1	SHA		1	24.578	33.085	51.246	1.00 34.05	SAHA .
HETATM		C1	SHA		1	24.063	34.053	50.259	1.00 34.23	SAHA
HETATM		C2	SHA		1	23.090	33.625	48.816	1.00 39.33	SAHA
HETATM	2997	C3	SHA		1	23.548	33.781		1.00 40.86	SAHA
HETATM		C4	SHA		1	22.498	33.274	47.852 47.455	1.00 43.37	SAHA
HETATM	2999	C5	SHA		1 '	21.590	34.413		1.00 46.72	SAHA
HETATM	3000	C6	SHA		1	21.061	34.017	46.092 45.787	1.00 48.75	SAHA
HETATM		C7	SHA		1	19.754	34.714		1.00 48.75	SAHA
HETATM	3002	C8	SHA		1	19.960	35.720	44.693 43.575	1.00 51.08	SAHA
HETATM	3003	03	SHA		1	20.381	35.467	45.085	1.00 52.52	SAHA
HETATM		N2	SHA		1	19.591	36.956	44.507	1.00 54.25	SAHA
HETATM		C9	SHA		1	19.842	38.330	45.215	1.00 55.76	SAHA
HETATM			SHA		1	19.243	39.431	44.727	1.00 56.53	SAHA
HETATM			SHA		1	19.423	40.804		1.00 56.58	SAHA
HETATM		C12			1	20.169	41.085	43.545 42.827	1.00 55.93	SAHA
HETATM	3009	C13	SHA		1	20.755	39.942		1.00 54.65	SAHA
HETATM			SHA		1	20.612	38.546	43.304 49.378	1.00 4.67	SOLV
HETATM	3011		TAW			36.485	44.023		1.00 4.67	SOLV
HETATM	3012		WAT			27.702	16.865	62.162 59.575	1.00 10.12	SOLV
HETATM			TAW			23.251	30.387	46.926	1.00 21.13	SOLV
HETATM			WAT			33.825	41.862 44.453	47.867	1.00 23.72	SOLV
HETATM	3015		TAW			24.866	20.442	33.590	1.00 18.19	SOLV
H TATM			WAT			34.145			1.00 20.79	SOLV
H_TATM	3017		WAT			7.921	29.753 6.9 7 8	62.099 64.018	1.00 28.94	SOLV
HLIATM			TAW			17.863	44.610	74.823	1.00 31.62	SOLV
HETATM	3019		WAT			35.580	27.797	65.303	1.00 14.70	SOLV
HETATM	3020		WAT			49.208	34.049	61.067	1.00 25.01	SOLV
HETATM	3021		WAT			20.490		46.084	1.00 25.90	SOLV
HETATM	3022		WAT			44.757	33.106 60.823	57.444	1.00 15.21	SOLV
HETATM	3023		WAT			22.457	32.742	65.163	1.00 20.66	SOLV
HETATM	3024		WAT			3.399	51.414	45.610	1.00 22.37	SOLV
HETATM	3025		WAT			32.273 26.328	42.873	73.427	1.00 27.86	SOLV
HETATM	3026		WAT				24.121	56.778	1.00 15.09	SOLV
HETATM	3027		WAT			48.249	44.552	72.082	1.00 40.95	SOLV
HETATM	3028		TAW			15.249		52.633	1.00 40.93	SOLV
HETATM	3029		WAT			26.444	9.269	59.650	1.00 20.00	SOLV
HETATM	3030		WAT			26.554	18.383	72.316	1.00 11.42	SOLV
HETATM	3031	OH2	WAT	ָם ב	22	39.456	25.964		1.00 20.32	SOLV
HETATM	3032	OH2	WAT	Ď	23	26.743	37.600	38.359	1.00 37.22	SOLV
HETATM	3033	OH2	TAW	D	24	44.666	23.818	39.068	1.00 32.27	SOLV
HETATM	3034	OH2	TAW	D	25	14.714	52.213	70.663	1.00 29.24	SOLV
· HETATM	3035		WAT			45.129	18.856	69.864	1.00 29.58	SOLV
HETATM	3036	OH2	WAT	. D	27	30.024	17.886	49.758	1.00 13.34	
		•								

HETATM	3037	OH2	WAT E	. .	28.	20.659	28.788	43.520	1.00 28.55	SOLV
HETATM			WAT E		29	32.271	38.000	53.512	1.00 47.72	SOLV
HETATM			WAT		30	18.285		54.536	1.00 21.34	SOLV
HETATM			WAT I		31	49.978		73.461	1.00 31.02	SOLV
HETATM		OH2	WAT I)	32	21.587		71.043	1.00 14.52	SOLV SOLV
HETATM		OH2	I TAW)	33	46.784		33.375	1.00 31.79	SOLV
HETATM			WAT I		34	33.359		49.117	1.00 16.13 1.00 27.22	SOLV
HETATM	3044		WAT I		35	7.687		51.568	1.00 27.22	SOLV
HETATM	3045		I TAW		36	44.238		33.961 58.206	1.00 33.51	SOLV
HETATM	3046		TAW		37	10.908 36.758		70.552	1.00 39.61	SOLV.
HETATM	3047		TAW		38	45.825		54.654	1.00 32.43	SOLV
HETATM	3048		WAT I		39 40	52.489		52.165	1.00 39.37	SOLV
HETATM	3049		WAT I		42	12.117		56.596	1.00 27.74	SOLV
HETATM	3050		WAT		43	45.023		35.172	1.00 14.09	SOLV
HETATM HETATM	3052		WAT		44	39.392	12.771	62.066	1.00 35.15	SOLV
HETATM	3052		WAT		45	3.930		63.814	1.00 22.23	SOLV
HETATM	3054		WAT		46	8.454		71.677	1.00 32.36	SOLV
HETATM	3055		WAT		47	20.280		73.237	1.00 33.88	SOLV
HETATM	3056	OH2	WAT 1	D	48	9.321		54.873	1.00 18.57	SOLV
HETATM	3057		WAT		49	50.852		58.048	1.00 21.23	SOLV
HETATM	3058		TAW		50	37.134		60.315 48.613	1.00 42.50	SOLV
HETATM	3059		WAT		51	14.944		51.420	1.00 40.65	SOLV
HETATM	3060		WAT		52	24.913		72.298	1.00 17.10	SOLV
HETATM	3061		WAT		53 54	51.156			1.00 23.05	SOLV
HETATM	3062		TAW TAW		55	16.518			1.00 49.25	SOLV
HETATM HETATM	3064		WAT		56	10.32		61.267	1.00 46.03	SOLV
HETATM	3065		WAT		57	25.31			1.00 22.73	SOLV
HETATM	3066		TAW		58	4.01			1.00 44.82	SOLV SOLV
HETATM	3067		TAW		59	24.84	- -		1.00 34.67	SOLV
HETATM	3068		WAT		60	15.93			1.00 55.56 1.00 28.72	SOLV
HETATM	3069		TAW		61	49.66			1.00 28.72	SOLV
HETATM	3070		TAW		62.	23.23 39.29			1.00 35.79	SOLV
HETATM	3071		TAW		63 64	19.90			1.00 24.33	SOLV
HETATM			TAW TAW		65	33.25			1.00 45.10	SOLV
HETATM HETATM	3074		WAT		66	27.52	-		1.00 44.79	SOLV
HETATM	3075	OH2	WAT	D	67	18.77	4 48.716	52.865	1.00 54.01	SOLV
HETATM	3076		WAT		68	10.87			1.00 27.08	SOLV SOLV
HETATM			WAT		69	43.05			1.00 30.16	SOLV
HETATM		OH2	WAT	D	70	24.81			1.00 20.11 1.00 33.55	SOLV
HETATM	3079	OH2			71	37.36			1.00 31.34	SOLV
HETATM	3080		TAW		72	9.03 51.79			1.00 28.32	· SOLV
HETATM	1 3081		TAW		73	17.55	-		1.00 19.27	SOLV
HETATM	3082		TAW :		74 75	28.43			1.00 27.13	SOLV
HETATM	1 3083		WAT		76	18.93			1.00 94.18	SOLV
HETATY HETATY	1 3004		WAT		77	34.35			1.00 73.70	SOLV
HETATI	4 3086		WAT		78	44.37			1.00 30.23	SOLV
HETAT	1 3087		TAW		79	28.53	7 63.478			SOLV SOLV
HETAT		OH2	TAW	D	80	6.86				SOLV
HETAT	1 3089	OH2	TAW	פ	81	42.88	18.76		1.00 40.11	SOLV
HETATI	4 3090	OH2	TAW S	D	82	36.71				SOLV
HETATI	4 3091	OH2	TAW S	D	83	37.50 40.05				SOLV
HETATI	4 3092		TAW S		84	32.17				SOLV
HETATI	3093		TAW S		85 86	24.47			1.00 41.18	SOLV
HETATI	4 3094		TAW S		86 87	48.58			1.00 33.40	SOLV
HETATI	M 3095	OHZ	YAT SWAT	ש	88	29.54			1.00 44.61	SOLV
HETATI	M 3096	OH	Z WAT Z WAT	ח	89	47.81		7 41.228	1.00 45.64	SOLV
HETAT	M 3097 M 3098	OH	WAT	םי	90	49.37	77 52.11			SOLV
nal'AT unnom	M 3099		2 WAT	ב פ	91 .	44.2	19 43.58			SOLV SOLV
HETTATION IN THE	M 3100		2 WAT	, D	92	25.93			1.00 48.28	SOLV
יותיקע יותיקע	M 3101		2 WAT		93	8.62				
HETAT	M 3102		2 WAT		94	45.63	34 41.08	0 40.990	J 1.00 Z1.40	

HETATM	3103	OHO	EAW S	, ,	95		20 004	74 006	E1 30E		
HETATM	-		WAI				29.984	34.886	51.725	1.00 35.75	SOLV
HETATM			. WAI				13.051	21.934	49.804	1.00 46.73	SOLV
				_			32.412	65.913	55.822	1.00 43.39	SOLV
HETATM			TAW	_			35.056	43.390	38.348	1.00 34.53	SOLV
HETATM			TAW !	_			22.360	47.680	60.688	1.00 19.16	SOLV
HETATM					100		50.755	19.722	57.906	1.00 42.45	SOLV
HETATM	3109				101		7.875	37.690	74.094	1.00 37.18	SOLV
HETATM	3110	OH2	WAT	' D	102		24.080	26.796	43.617	1.00 30.72	SOLV
HETATM	3111	OH2	WAT	, D	103		45.206	34.126	75.765	1.00 39.89	
HETATM	3112				104		26.110	54.786	40.685		SOLV
HETATM	3113				105		25.918	39.658	77.647	1.00 29.58	SOLV
HETATM					106	••	41.578	18.191		1.00 44.04	SOLV
HETATM					107				36.809	1.00 42.22	SOLV
HETATM					108		31.945	51.420	73.896	1.00 41.15	SOLV
HETATM					109		16.722	60.311	51.182	1.00 48.74	SOLV
HETATM							43.604	38.573	78.141	1.00 36.22	SOLV
		0112	WAT	ט	110		16.063	15.496	69.430	1.00 55.36	SOLV
HETATM					111		21.630	22.785	49.145	1.00 36.52	SOLV
HETATM			WAT				27.479	56.647	44.026	1.00 50.82	SOLV
HETATM			TAW				14.739	51.674	61.674	1.00 35.55	SOLV
HETATM			WAT				50.063	26.435	54.358	1.00 50.86	SOLV
HETATM			TAW				43.935	38.427	73.129	1.00 44.21	SOLV
HETATM			TAW				49.707	31.478	57.709	1.00 36.11	SOLV
HETATM			TAW				25.032	43.463	55.676	1.00 38.06	SOLV
HETATM			WAT				10.618	46.623	59.838	1.00 26.33	SOLV
HETATM			WAT				48.466	33.382	61.437	1.00 19.82	SOLV
HETATM			WAT				44.157	40.058	37.907	1.00 42.95	SOLV
HETATM			WAT				51.267	29.446	52.889	1.00 38.93	SOLV
HETATM			TAW				16.653	15.228	72'. 975	1.00 45.41	SOLV
HETATM			WAT				36.898	45.148	41.936	1.00 27.00	SOLV
HETATM			WAT				49.655	34.591	59.117	1.00 38.97	SOLV
HETATM		OH2	TAW	D	125		12.285	57.594	42.107	1.00 23.56	SOLV
HETATM		OH2	WAT	D	126		28.294	57.644	73.289	1.00 34.79	SOLV
HETATM	3135	OH2	WAT	D	127		19.138	60.403	61.551	1.00 28.58	SOLV
HETATM	3136	OH2	WAT	D	128		30.300	33.685	34.047	1.00 27.37	SOLV
HETATM	3137	OH2	WAT	D	129		40.898	53.983	47.254	1.00 16.30	SOLV
HETATM	3138	OH2	WAT	D	130		43.550	32.160	38.272	1.00 38.86	SOLV
HETATM	3139		TAW				18.624	13.959	56.194	1.00 37.70	SOLV
HETATM	3140	OH2	WAT	D	132		18.580	12.901	62.894	1.00 27.28	SOLV
HETATM	3141	OH2	WAT	D	133		35.830	30.296	50.621	1.00 42.47	SOLV
HETATM	3142	OH2	WAT	D	134		51.219	35.855	51.878	1.00 20.37	SOLV
HETATM	3143	OH2	TAW	D	135		50.428	22.486	49.267	1.00 39.37	SOLV
HETATM	3144	OH2	WAT	D	136		51.633	29.369	63.918	1.00 33.99	SOLV
HETATM	3145	OH2	WAT	D	137		46.384	43.924	55.825	1.00 22.63	SOLV
HETATM	3146		WAT				30.356	25.767	28.762	1.00 25.84	SOLV
HETATM	3147		WAT				25.070	47.842	60.819	1.00 25.00	SOLV
HETATM	3148		WAT				47.097	49.394	69.367	1.00 30.58	
HETATM	3149	OH2	WAT	D	141		15.246	37.581	73.398	1.00 36.82	SOLV
HETATM	3150		WAT				8.341	23.099	64.695	1.00 35.82	SOLV
HETATM .			WAT				30.065	18.220	46.048	1.00 14.26	SOLV
HETATM	3152		WAT		_		11.930	46.453	57.606	1.00 14.26	SOLV
				-				-5.255	37.000	1.00 30.13	SOLV

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/94700

A. CLASSIFICATION OF SUBJECT MATTER								
IPC(7) :C07K 14/00; G01N 33/573								
US CL: Please See Extra Sheet. According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum docume	entation searched (classification system follower	ed by classification symbols)						
U.S. : Please	: See Extra Sheet.							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Extra Sheet.								
C. DOCUME	C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category* C	Station of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.					
Hur Jour	KAKUTA et al. Crystal Structure of the Sulfotransferase Domain of Human Heparan Sulfate N-Deacetylase/N-Sulfotransferase 1. The Journal of Biological Chemistry. 16 April 1999, Volume 274, Number 16, pages 10673-10676, see especially the abstract.							
of l Lett	SUEYOSHI et al. A role of Lys-614 in the sulfotransferase activity of human heparan sulfate N-deacetulase/N-sulfotransferase. FEBS Letters. 1998, Volume 433, pages 211-214, see especially the abstract.							
			-					
X Further documents are listed in the continuation of Box C. See patent family annex.								
Special categories of cited documents: "T" later document published after the international filing date or priority								
"A" document defining the general state of the art which is not considered the principle or theory underlying the invention								
E carlier document unblished on or after the international filing date. "X" document of particular relevance; the claimed invention cannot be								
Considered novel or cannot be considered to involve an inventive step document which may throw doubts on priority claim(s) or which is when the document is taken alone cited to establish the publication date of another citation or other								
special mason (as specified) "Y" decument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined								
O" document referring to an oral disclosure, use, exhibition or other with one or more other such documents, such combination being obvious to a person skilled in the art								
"P" document published prior to the international filing date but later "A" document member of the same patent family than the priority date claimed								
Date of the actual completion of the international search Date of mailing of the international search report								
25 JAN 2001								
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Authorized officer ARDIN MARSCHEL								
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Facsimile No. (7	703) 305-3230	Telephone No. (703) 308-0196	7)					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/24700

	4700
ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
AHMAD et al. WD Repeats of the p48 Subunit of Chicken Chromatin Assembly Factor-1 Required for in Vitro Interaction with Chicken Histone Deacetylase-2. The Journal of Biological Chemistry. 04 June 1999, Volume 274, Number 23, pages 16646-16653, see especially the abstract.	1-19
JOHN et al. Rhizobium NodB protein involved in nodulation signal synthesis is a chitooligosaccharide deacetylase. Proceedings of the National Academy of Sciences, USA. January 1993, Volume 90, pages 625-629, see especially the abstract.	1-19
US 5,780,594 A (CARTER) 14 July 1998, see the entire disclosure.	1-19
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	AHMAD et al. WD Repeats of the p48 Subunit of Chicken Chromatin Assembly Factor-1 Required for in Vitro Interaction with Chicken Histone Deacetylase-2. The Journal of Biological Chemistry. 04 June 1999, Volume 274, Number 23, pages 16646-16653, see especially the abstract. JOHN et al. Rhizobium NodB protein involved in nodulation signal synthesis is a chitooligosaccharide deacetylase. Proceedings of the National Academy of Sciences, USA. January 1993, Volume 90, pages 625-629, see especially the abstract.

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/24700

A. CLASSIFICATION OF SUBJECT MATTER: US CL:

530/550 and 435/7.9

B. FIELDS SEARCHED
Minimum documentation searched
Classification System: U.S.

530/300,533,550; 435/6,7.2; 514/9

B. FIELDS SEARCHED
Electronic data bases consulted (Name of data base and where practicable terms used):

CAS, BIOTECH ABS, MEDLINE, EMBASE, WPI, WEST covering search terms: deacetylase, human, crystal, histone, inhibitor, x-ray, and crystallography

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